1998 Handheld PC Buyer's Guide for Windows CE

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HANDHELD PC

MAGAZINE

For Users of Windows® CE

1998 Windows® CE BUYER'S GUIDE

8 New H/PCs

Over 300 Products

First look: Windows CE 2.0

11 Best H/PC Web Sites

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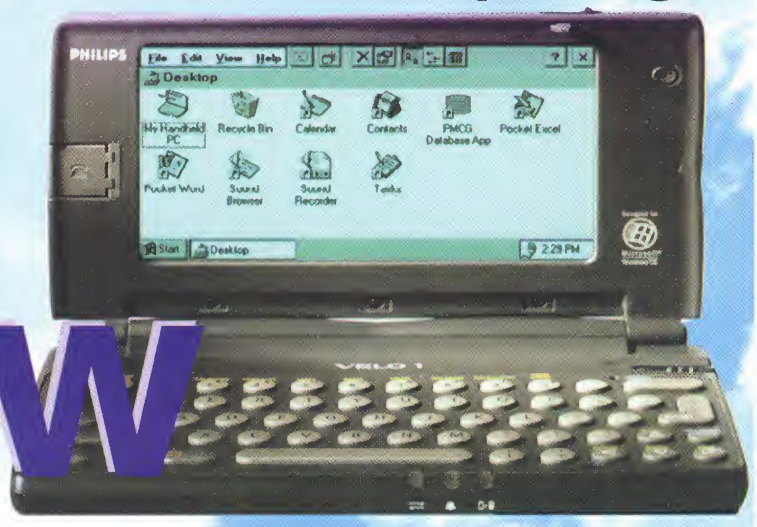

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BUYER'S GUIDE 1998

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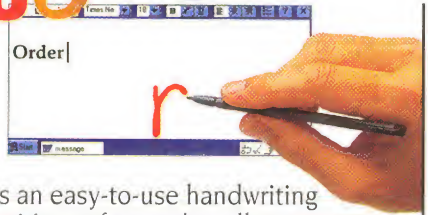

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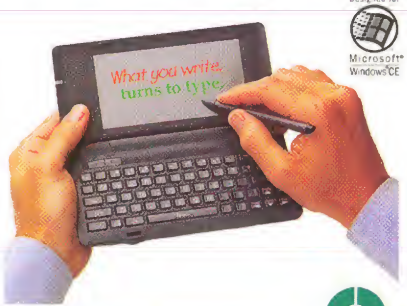

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From The Publisher

Hal Goldstein

Welcome to our first, annual, Handheld PC Magazine Windows CE Buyer's Guide. The pages are filled with information on over 300 products: new handheld PC's, hardware accessories, software applications, wireless solutions, and services. And you ain't seen nuthin' yet.

In 1998 expect to see more Windows CE-based handheld PC's and more third-party solutions for the H/PC. The market is just beginning to heat up. Over one hundred third-party vendors are lined up to provide solutions for Microsoft's Windows operating system for small machines and appliances. Our first regular bi-monthly issue comes out in about a month. The 1998 issues will provide you with the tips, tricks, profiles, and reviews that will enable you to get the most out of your H/PC, or tell you when the time is right to take the H/PC plunge.

The release of the Microsoft Windows CE 2.0 operating system is the lead story in this issue. As you'll see in the review on page 6, Microsoft listened carefully to its customers. The new version includes a spell checker for Pocket Word, a Pocket version of PowerPoint, Pocket Outlook (integrating Calendar, Contacts and Tasks), improvements to Pocket Excel, a better user interface, better Internet support, and many more features. H/PCs with color displays are announced in this issue and we should see them available sometime next year. Most H/PCs running Windows CE 1.0 can be upgraded. Check for details inside.

This issue is divided into three sections. The first section describes Windows CE 2.0 and new H/PCs from eight manufacturers. The second section is dense with hundreds of brief descriptions of products that will enhance the usefulness of your H/PC. Our staff spent months contacting over one hundred H/PC vendors to insure accuracy. Nowhere else will you find a comparable listing. The electronic version of these descriptions with live links to the product vendor's sites can be found on our website, www.thaddeus.com, and on our PowerCD. The final section in this issue contains a number of product reviews. You'll find plenty more such reviews and product comparisons in upcoming 1998 issues.

Our belief is that you, the end user, are the real H/PC expert. We encourage you to send us profiles of how you or your company uses H/PCs. If you are excited about a product, send us your review. Got any hot tips? Why not share your knowledge and experience with thousands of fellow H/PC users in these pages? Check out www.thaddeus.com for writer's guidelines or email us at editor@thaddeus.com.

Finally, a word of thanks to our advertisers and other third-party developers. Many of these developers are small entrepreneurial companies with dedicated people willing to invest their resources and energies on their vision of the future. Big or small, these companies are responsible for making Windows CE a useful and productive platform for the rest of us. We encourage you to support them, using their products and providing them with feedback. Then be sure to tell us about the products you find truly useful.

HANDHELD PC MAGAZINE
For Users of Windows® CE

Buyer's Guide 1998
Increasing Your Personal Power by Expanding Your Handheld PC's Potential

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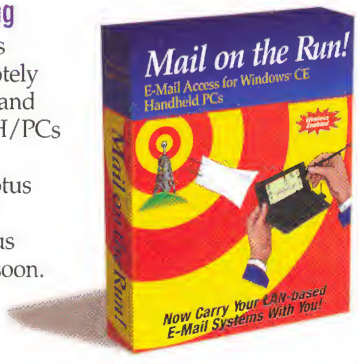

Data Base

The Corporate Connection product contains Open Data Base Connectivity (ODBC) APIs for creating Windows CE applications for database access. With it, you can remotely retrieve and update corporate information.

Multiple Platforms

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First Look

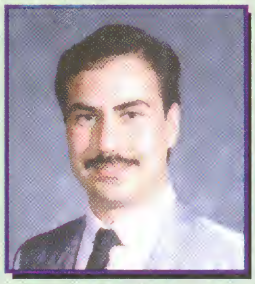
Windows® CE 2.0

By David Shier

It's now been one year since Bill Gates used the Cirque du Soleil as a backdrop to officially kickoff Microsoft's new Windows CE operating system at COMDEX 1996. I was impressed with the magnitude of the launch party. Given the competition for Bill Gates' time, the fact that he personally appeared to introduce the industry to Windows CE was a clear indication of Microsoft's commitment to the handheld market.

At the introduction, Gates explained that an important design requirement for Windows CE handhelds was placing the operating system and applications software on replaceable ROM modules. This allows you to purchase a first generation Windows CE H/PC without the worry that it will be obsolete as soon as the first bug is found in the software.

Microsoft is helping the OEM vendors to come through with the promise by making the new version of Windows CE backward compatible with the crop of H/PCs released with Version 1. This means that for many H/PCs you should be able to purchase the upgrade module and simply install it in your current H/PC. (Some recent purchasers of H/PCs with Windows CE version 1.0 are eligible for free upgrade kits. See section beginning on page 13 for information on the upgrade path for the individual manufacturers of the H/PC.)



David Shier

is a former software engineer and marketing/sales director in the electronics industry. He is now President of Shier Systems & Software, Inc., which develops and markets products and applications for the handheld computer market. David is a regular contributor to *Handheld PC Magazine*. He can be reached at: Phone: 805-371-9391; Fax: 805-371-9454; E-mail: david@shier.com; Web site: www.shier.com.

Some of Windows CE 2.0's new features, such as support for color screens, will require new H/PCs new hardware. But even if you own one of the original H/PCs, I think you'll find the improvements worth upgrading to Windows CE 2.0.

Developers Get a Preview

Earlier this year Microsoft provided hardware and software developers a look at things to come for Windows CE. By the time you read this article, Windows CE 2.0 will have been formally announced at the November 1997 COMDEX.

Microsoft's goals for Windows CE 2.0 for the H/PC were outlined as follows:

1. Enhance the utility of the H/PC for corporate buyers in response to customer, manufacturer and vendor feedback.
2. Support new hardware technologies, including color displays.
3. Upgrade the existing H/PCs.
4. Support the European market.
5. Continue the sales momentum for the H/PCs.

From the demos I saw it appears that the H/PCs are headed in the right direction. It is also clear that Microsoft is relying on third-party developers to enhance the utility of the H/PCs.

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Mobilon HC-4100 (grayscale display), 8MB RAM, PC link cable Our Price: **$699.95**

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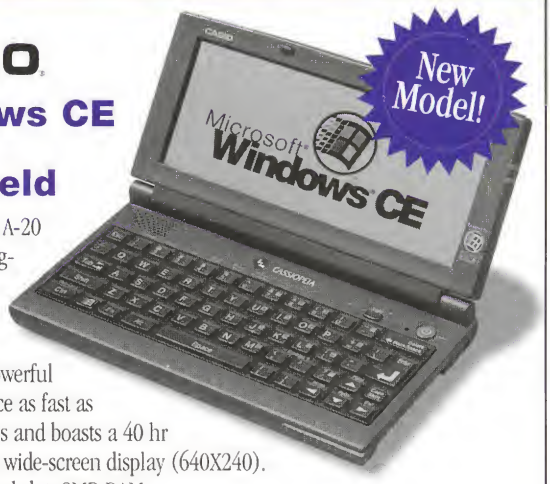
Windows CE v2.0 Handheld



The Cassiopeia A-20 utilizes the long-awaited Windows CE 2.0 operating system. This powerful new unit is twice as fast as previous models and boasts a 40 hr battery life and wide-screen display (640X240). Features PC Card slot, 8MB RAM. *Includes over 30 CE software titles!*

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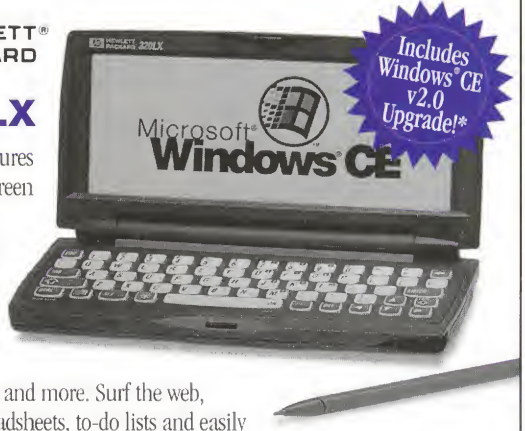

The HP320LX features a back-lit, wide screen display for easy viewing, a Type II PC Card slot for expandability, compact PC Card slot for expanded storage, and more. Surf the web, create letters, spreadsheets, to-do lists and easily sync it all with your desktop through the included docking cradle.

HP320LX 4MB H/PC with docking cradle, AC adapter & PC cable Our Price: **$599.95**

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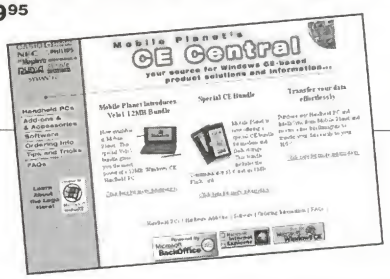

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New Features of Windows CE 2.0

The first thing you'll notice about running Windows CE 2.0 for the H/PC is that many of the changes are a direct result of customer feedback. The fonts are more readable — TrueType support is now built in. The Start, and other menus now support "cascading" to speed navigation and to provide a feel much closer to Windows on your desktop (95 or NT.)

Just like its big brothers on the desktop, Windows CE 2.0 for the H/PC now supports an Autohide option for the Taskbar. This causes the taskbar to disappear off the screen when not in use, allowing the space to be used by the applications software. You can also turn the Taskbar's "Always on top" feature on and off to allow it to remain on screen, but to move down in the stack of active Windows as you launch applications. Finally, there's a new Desktop button that will minimize whatever number of open application windows you have to display the H/PC desktop.

On my desktop PC with a 17" monitor, I find such features as "autohide" to be unnecessary. But it is a welcome change on the H/PC where screen real estate is much more precious. The user interface now includes a color setting dialog, and a print dialog. That's right — your H/PC can now support printing from the built-in applications! Microsoft supplies a printer driver for PCL3 (HP LaserJet-compatible) printers. The manufacturers of non-PCL3 printers must provide their own Windows CE drivers.

Another change with Windows CE 2.0 for the H/PC is that the new version of Pocket Internet Explorer lets you browse files on your system, as well as the Internet, in a similar way to Internet Explorer 4.0 for the desktop. You can type in a URL or a file system path into the address bar, and Pocket Internet Explorer will display the web command bar and the web page, or the H/PC's version of Windows Explorer will display the portion of the file system you selected. The new version of Pocket Internet Explorer provides additional new features similar to the desktop version, including support for frames and secure connections.

The three personal information management programs (Contacts, Calendar and Tasks) are also improved. If you are using Microsoft's Outlook on your desktop PC, you'll find it easy to work with the Windows CE 2.0 for the H/PC. Inbox, along with Contacts, Calendar and Tasks have been merged into one application called Microsoft Pocket Outlook. Pocket Outlook closely resembles, and easily synchronizes with Outlook. This cross-product similarity and ease of synchronization is a repeated theme in Microsoft products, encouraging you to purchase their software.

The dialog design is quite similar to Outlook's, and it now supports filtering and categories. You can even perform group-scheduling tasks from the H/PC, drag across two or more days in Calendar to see multiple days at a glance, add ink notes to appointments contacts and task items, perform a "Find" operation on any Pocket Outlook item (except email), send email or launch a web URL from within Contacts, and use the Go menu to switch between Pocket Outlook components.

International Characters

The initial Windows CE handheld PCs only supported US English characters, leaving the large markets of Europe and Asia unsupported. In fact, of the initial H/PCs, only the Hewlett-Packard 300/320LX, and a later version of the Philips Velo1 included the British Pound sign (the only unique character required to support British English).

Supporting other western European languages is more complex and the solution offered by Windows CE is to use "Unicode". Unicode is a newer, 16-bit, standard for representing characters, that allows up to 64,000 characters instead of the older, 8-bit ASCII which only describes 128 characters (another 128 "extended" characters are possible, but are not part of the standard.) Although a 16-bit character set would normally require twice the storage space, Windows CE uses data compression, so that you will not see any practical difference in size between a text file in Unicode vs. ASCII. The use of Unicode will also allow for support of Eastern languages such as Japanese and Korean. Windows CE 2.0 will not directly support Eastern languages, but individual manufacturers may make special, localized versions of their H/PCs - such as the Japanese version of the Cassiopeia currently available.

Supporting international versions of the operating system requires more than simply expanding the character set. Windows CE 2.0 also allows changing the date and number formats, and even the sorting order - which changes from country-to-country. Other international support includes alternates for currency symbols, days of the week, and case conversions.

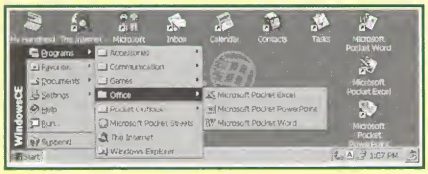
New Features of Pocket Office

The "Pocket" versions of the Office Suite have also been improved. Pocket Word now has a much-needed spell checker.

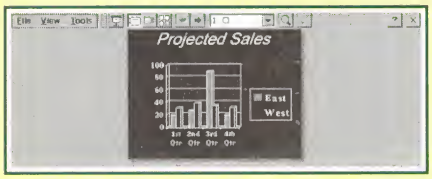
Pocket Word 2.0 also does a better job of providing richer formatting features such as tabs, indentation, numbered lists, etc. Pocket Word and Pocket Excel 2.0 both offer support for full screen view, zooming, password protected documents and document templates. Pocket Excel also adds user interface features such as split and freeze panes, and database functions. Macros are still missing from Pocket Excel and some formatting is still not converted properly

Windows CE 2.0

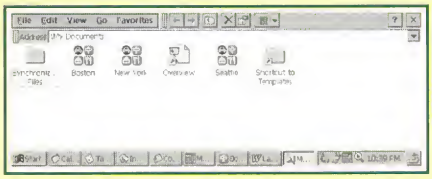
Windows CE 2.0 comes with a number of new applications and time-saving features. The screens below are in color and will appear as such on H/PCs with color displays.



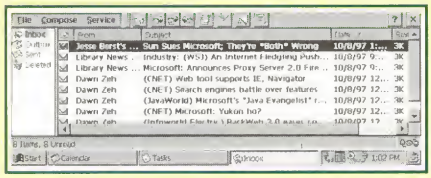
Windows CE 2.0 gives a new cascading menus feature off of the Start button, making it easier to locate and access programs and documents on the H/PC.



Windows CE 2.0 brings users a Pocket version of PowerPoint. Users can connect to a VGA monitor and display color slides, even if their H/PC has a grey scale screen.



Windows CE 2.0 comes with a new Pocket version of Windows Explorer, now accessed in a submenu of the programs menu. It incorporates many new web-like features including Forward and Back buttons and a Favorites menu.



Inbox, along with Contacts, Calendar and Tasks have been merged into one application called Microsoft Pocket Outlook. Inbox e-mail and files can be synchronized with the desktop Inbox, Calendar, Contacts and Tasks data.

when documents are transferred to and from a desktop PC and H/PC.

New to the Pocket Office Suite is Pocket PowerPoint. This is the one application missing from Windows CE 1.0 that forced me to carry a laptop around at times. By connecting the H/PC to an external VGA screen (via a PC Card VGA interface, see product listing, page 32) you can make your presentation in 640x480 VGA resolution in 256 colors, even from a gray scale display H/PC! Pocket PowerPoint lets you create and edit slide titles, hide slides, shows slides and notes side by side while projecting the presentation on the VGA PC Card, jump to slides by number, "blackout or whiteout" the slides during a slide show, and rearrange the slide order. The pre-release version demonstrated at the developer's conference was not fully functional, so a complete review of Pocket PowerPoint will have to wait. I look forward to this application because it will let me carry complete slide presentations on Compact Flash cards, ready at a moment's notice.

Improved Desktop Connectivity and Device Support

A limitation of Version 1.0 was that you could only partner a single H/PC with a single desktop PC. This is not very practical in a number of circumstances. Many companies rely on a single person, such as a secretary, to manage the appointments for many others in a department. Many sales people and executives do not have their own desktop computers. This means that the secretary is responsible to synchronize multiple H/PCs with a single desktop computer. Windows CE Services 2.0 solves this problem, allowing a single desktop PC to support a number of H/PCs.

The other major improvements implemented in Windows CE Services 2.0 include:

* A single H/PC can dock with two Windows-based PCs, and sync with both.

* Inbox e-mail and files can be synchronized along with Calendar, Contacts and Tasks data.

* ActiveSync incorporates the version one sync modes: sync on connect, no sync, and manual sync, and adds continuous sync. That is, while your H/PC and PC are docked, any changes that you make are synchronized automatically. Now you can grab your H/PC and go without having to initiate sync before leaving your desk.

* ActiveSync supports serial, infrared, dial-up from the H/PC either directly to the PC or through a network RAS server, and sync via a Ethernet card!

Windows CE 2.0 also fixed the limitation on the number of memory cards that could be accessed by the H/PC at the same time. Version 1.0 H/PCs such as the Hewlett-Packard 320LX came with two card slots, but could only access one memory card at a time (however, you could use a modem card in one slot and a memory card in the other.) Windows CE 2.0 allows up to nine memory cards at a time (although no current H/PC has more than two.)

There is also improved support for wireless networking in the new version of Windows CE. Wireless modems often send data in odd order, requiring the receiving device to put things back in the original order. Version 1.0 was not very good at this, so the efficiency of wireless communications suffered. Version 2.0 fixes some of the technical problems regarding the way e-mail, and other information is received, improving the speed and reliability of wireless networking.

There are many other subtle improvements in the core of the operating system, but I will save the discussion of them for a future article. One thing to mention is that unlike what we've come to expect

from new versions of software, the kernel of Windows CE Version 2.0 is actually smaller and a bit faster than Version 1.0.

Java Support

Windows CE 2.0 has another surprise: The operating system provides a "Java Virtual Machine."

JAVA is the "universal" programming language that is quickly becoming the language of choice for the Internet. The idea of JAVA is that a "virtual computer" is defined that any computer can pretend to be, that is, emulate. The JAVA applications are written in the language of the virtual computer, and each real computer interprets the commands in its native language. Microsoft's support for the Java virtual machine is based on JDK 1.1

This is an important development that can further the effort to develop programs that can run on any computer, from powerful workstations to tiny handhelds. It also adds a significant advantage for Windows CE handhelds over other handhelds that don't offer such support.

Windows CE on new computers

With Version 2.0, Microsoft is supporting many additional CPU processors. These include the Intel x86 series, which may include some very low-power versions of the 80486, or even Pentium processors; the Motorola PowerPC; and the ARM and StrongARM (available in a future release after Windows CE 2.0). StrongARM is the low-power, high-speed processor currently used in the Newton MP2000. With all these new chips and new devices with faster hardware designs and clock rates of the existing CPUs, expect to see some faster H/PCs available soon.

Windows CE not just for the H/PC!

Microsoft wants a version of Windows to be used everywhere computers are used: Windows NT for Network servers and corporate desktops, Windows 95 (soon to be Windows 98) for the home computer, Windows CE for everything else. We used to hear jokes about washing machines running Windows. Well that's exactly where Microsoft is aiming. No, they don't actually expect you to use a mouse to operate your kitchen blender. In fact, for some devices, such as a microwave oven, you might not even notice that much has changed. The basic idea is this: Currently there are a number of specialized operating systems (with names such as OS9, VRTX and PDOS) that are used inside computer controlled appliances, industrial controllers and other computerized automation. Programmers must learn the controls and other details of each new operating system they work with. If there is one predominate operation system (Windows CE) for all of these devices, then programmers can focus on learning that system. And since there are currently a large number of programmers who work with Windows, there will be less training needed for them to write their applications for Windows CE than for one of the many, lesser-known operating systems.

The idea of having one system to learn is attractive, but there are other considerations. First, the computer processors in most appliances are very simple and inexpensive. They need very little memory or processing power to do their simple jobs. Windows CE represents a relatively large operating system that requires more powerful and expensive processors. Will the added features be worth the added expense?

Next, there's the cost of testing. The simplicity of existing small appliance controllers make them

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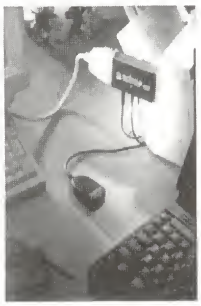

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more predictable. It's possible to test most, if not all, conditions that they will encounter relatively easily (can you imagine a combination of button presses on your microwave oven that haven't been tried by the manufacturer?) On the other hand, Windows CE is a highly sophisticated and complex package. Because of differences in the way Windows operating systems behave, it is much more difficult, if not impossible, to test every combination of events. Finally, there is the issue of simplicity. Customers don't want a toaster with a complex user interface. While using Windows CE as the operating system for a home appliance does not necessitate a complicated user interface, the Windows CE operating system has a lot more capabilities. Designers will need to resist adding to many "bells and whistles." It will be interesting to see how Windows CE develops for embedded controller applications. Since Microsoft purchased WebTV, I would imagine that we will see Windows CE in a "set- top" TV box as one of the first applications for Windows CE outside of the H/PCs.

Recommendations

If you've been waiting to buy an H/PC, it's time to take a closer look at what's available now and what's coming. Windows CE 2.0 supports color displays, so expect that in the future. But color H/PCs are likely to cost more and have reduced battery life. If you currently use a Windows CE handheld PC, you'll probably find the upgrade well worth the price. Windows CE 2.0 fixes problems, adds features, and makes the H/PC a little easier to use. I especially like the addition of Pocket PowerPoint Viewer. If you give a lot of presentations, this addition alone is worth the upgrade.

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KSM-004MS	4MB Card (5V)
KSM-002MH	2MB Card (3.3V)
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New batch of handheld PCs on the horizon

Windows CE 2.0 adds a number of features and capabilities that are making the operating system more attractive to computer manufacturers. All of the seven original manufacturers of the handheld PCs are releasing new handhelds based on the Windows CE 2.0 operating system, most are offering upgrade paths to owners of existing H/PCs. In addition, other computer manufacturers are considering, or have already decided to release new H/PCs.

The Sharp Electronics Corporation plans to introduce a handheld PC (H/PC) with Microsoft Windows CE before the end of 1997. The new Sharp H/PC will have the Windows CE 2.0 operating system and incorporate Sharp's experience with pocket organizers, according to Sharp. See page 20!

Sharp is already heavily committed to the pocket organizer niche with its Zaurus PC Companions, Wizard, SE-500 Mobile Organizer and YO series of electronic organizers. According to industry sources, Sharp feels that Windows CE is creating a new category of mobile products that addresses the needs of corporate users familiar with the Windows operation system. Sharp's new Windows CE product line will be for that user and Sharp does not expect its H/PC to compete with its pocket organizer line.

For more information on Sharp's Windows CE handhelds, write Sharp Electronics Corporation, Mobile and Home Office Equipment Division, Sharp Plaza, Mahwah, N.J. 07430 or call 1-800-BE-SHARP. For on-line information on Sharp's current handheld products, visit Sharp's Web Site at http://www.sharp-usa.com.

Toshiba is also planning to enter the H/PC market with a Windows CE device. Industry sources suggest that it will use the Toshiba TX RISC chip and come with a color screen, but specifications and release date have not been announced by Toshiba.

Other companies considering developing handheld PCs include Fujitsu, Acer, First International Computer, and Twinhead International Corporation. The added features and capabilities of Windows CE 2.0 will certainly encourage other manufacturers to enter the field. Expect H/PCs with color displays, built-in wireless capabilities, larger form factors (sub-sub-notebooks), pen-entry devices, and more. As we get specific information about new Windows CE devices, we will announce it in *Handheld PC Magazine.*

Windows CE

Windows CE 2.0 Upgrades

The ability to upgrade the handheld PC to new releases of Windows CE is one of the basic principles of the Handheld PC's design. Microsoft has worked with all manufacturers of handheld PCs to ensure smooth upgrades for owners of H/PCs with Windows CE 1.0. The only H/P that is not capable of being upgraded is the Hitachi Handheld PC.

Although the upgrade process will vary by manufacturer, typical installation of a Windows CE 2.0 upgrade can be as simple as this:

1. Connect the H/PC to a PC to synchronize and back up all data.
2. Disconnect the H/PC from the PC
3. Remove the main and back-up batteries.
4. Remove the ROM cover and the old ROM board.
5. Install the new ROM board and replace the ROM cover.
6. Replace the batteries and reset the H/PC.
7. Install the new version of the desktop connectivity software.
8. Reconnect the H/PC to the PC to restore the data to the H/PCs.

Again, this describes a typical installation of the Windows CE 2.0 upgrade. The process may vary with different manufactures. To find out more about your H/PC's Windows 2.0 upgrade procedure, take a look at the H/PC manufacturers listings below.

Casio

Casio CASSIOPEIA Handheld PC

Casio's new CASSIOPEIA A-20 comes with Windows CE 2.0 and all of its new features. The A-20 comes standard with 8 Mb of internal RAM, a larger 640 x 240 backlit display with 4 shades of gray, a faster

Hitachi SH-3 (80mhz) CPU, one PC Card plus and one Compact Flash memory expansion slot, a built-in microphone and speaker. The A-20 also comes with an external AC adapter standard.

CASSIOPEIA A-20 -- $599.95

Additional software on CD ROM

In addition to the built-in Windows CE operating system and pre-installed software the CASSIOPEIA comes bundled with a selection of business-oriented applications, including:

Casio QV-Link: Digital camera connection software for controlling camera presentations and transferring images to and from QV Digital cameras.

Casio Project Scheduler: Exclusive project management and scheduling software that can easily exchange files with the desktop PC version of Microsoft Project.

Casio Paint-Atlas: Exclusive drawing/painting application with special map symbol library and drawing tools.

Casio Sound-Vega: Voice memo software lets you record and playback voice notes.

Casio Voice Manager: Voice command software for launching applications and calling up contact manager information.

Casio Communication Center: Teleconferencing software to enable live sharing of drawings, text, and more between two CASSIOPEIAs.

Financial Consultant Calculator: Financial Consultant Calculator developed by LandWare for financial, calendar and percentage calculations, cash flow, analysis, etc.

bFAX Pro: Send and receive faxes and Casio QV Digital camera image files directly from your CASSIOPEIA.

pcANYWHERE CE*: Remotely access PCs, applications and information from the palm of your hand.

QuickNotes Electronic InkPad: Use QuickNotes by CIC to quickly and easily capture your handwritten notes, ideas and sketches.

IntelliMigrate: Transfer all calendar, contact, and action item information from other handheld devices to the CASSIOPEIA.

IntelliSync: Free trial version of IntelliSync for Windows CE by Puma Technology to synchronize your CASSIOPEIA with many additional popular PC-based information management and scheduling applications.

Virtual Courier Lite: Remotely retrieve e-mail from cc:Mail and Microsoft MS Mail/Exchange local area network e-mail systems.

SkyTel Messenger: Provides two-way wireless messaging. SkyTel Messenger software lets you send and receive wireless messages 500 characters long with a SkyTel 2-way pager and cable available separately. PageCard* provides one-way wireless messaging - PageCard connection software by Socket Communications for receiving wireless one-way text messages using your CASSIOPEIA and a separately purchased Socket PCMCIA pager card.

Windows CE 2.0 upgrade program

Existing owners of the CASSIOPEIA A-11 and A-11 Plus can upgrade their H/PCs to Windows CE 2.0. A free upgrade kit will be available to Casio users who purchase the A-11 or A-11 Plus from September 8, 1997 to December 31, 1997. Other A-11/A-11 Plus owners can purchase this upgrade kit for $99.99. The upgrade kit will be available soon after Microsoft releases Windows CE 2.0 in the fourth quarter of 1997.

Accessories and Other Options

A desktop PC Docking station and an extra AC adapter are sold separately. Prices unavailable at this time.

For more information, contact your local Casio dealer or: Casio, Inc., 570 Mt. Pleasant Ave. Dover, New Jersey 07801, USA; Phone: 201-361-5400; Fax: 201-361-3819; Web site: www.casioh-pc.com

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Compaq

Compaq PC companion 2

Compaq's new PC companion 2 comes with Windows CE 2.0 built-in. It sports a faster 75 MHz RISC processor, EDO memory ranging from 4MB to 32MB (user upgradeable), a 640 x 240 Mono or Color TFT Touch Sensitive Display, an integrated 33.6 modem (optional in some countries), a PC Card slot. It is powered by two Alkaline or NiMH Rechargeable AA batteries and comes with a serial cable for connectivity. The PC companion 2 will come with unique design, security and management features, according to Compaq.

PC companion 2 with monochrome screen will be available first quarter 1998. $ price not available

PC companion 2 with color screen will be available in first quarter 1998. $ price not available

PC companion C120 — $399
(Part #266500-001) - Windows CE 1.0, 2Mb RAM, 4Mb ROM, 480x240 Touch Sensitive Display, 2AA batteries, Serial Cable.

PC companion C120+ — $499
(Part #266502-001) -Windows CE 1.0, 2Mb RAM, 4Mb ROM, 480x240 Touch Sensitive Display, 2AA batteries, Serial Cable, 14.4 LP PC Card modem, AC Adapter, QuickConnect.

PC companion C140 -- $499
(Part number 266550-001) - Windows CE 1.0, 4Mb RAM, 4Mb ROM, 480x240 Touch Sensitive Display, 2AA batteries, Serial Cable.

Windows CE 2.0 Upgrade Program
Compaq will offer a Windows CE 2.0 upgrade to existing PC companion owners, but the details have not yet been worked out.

Accessories and Other Available Options *(prices suggested retail)*

2 Mb Memory Expansion — $99
(Part #266506-001) - Use to increase storage space and increase capacity to run multiple programs.

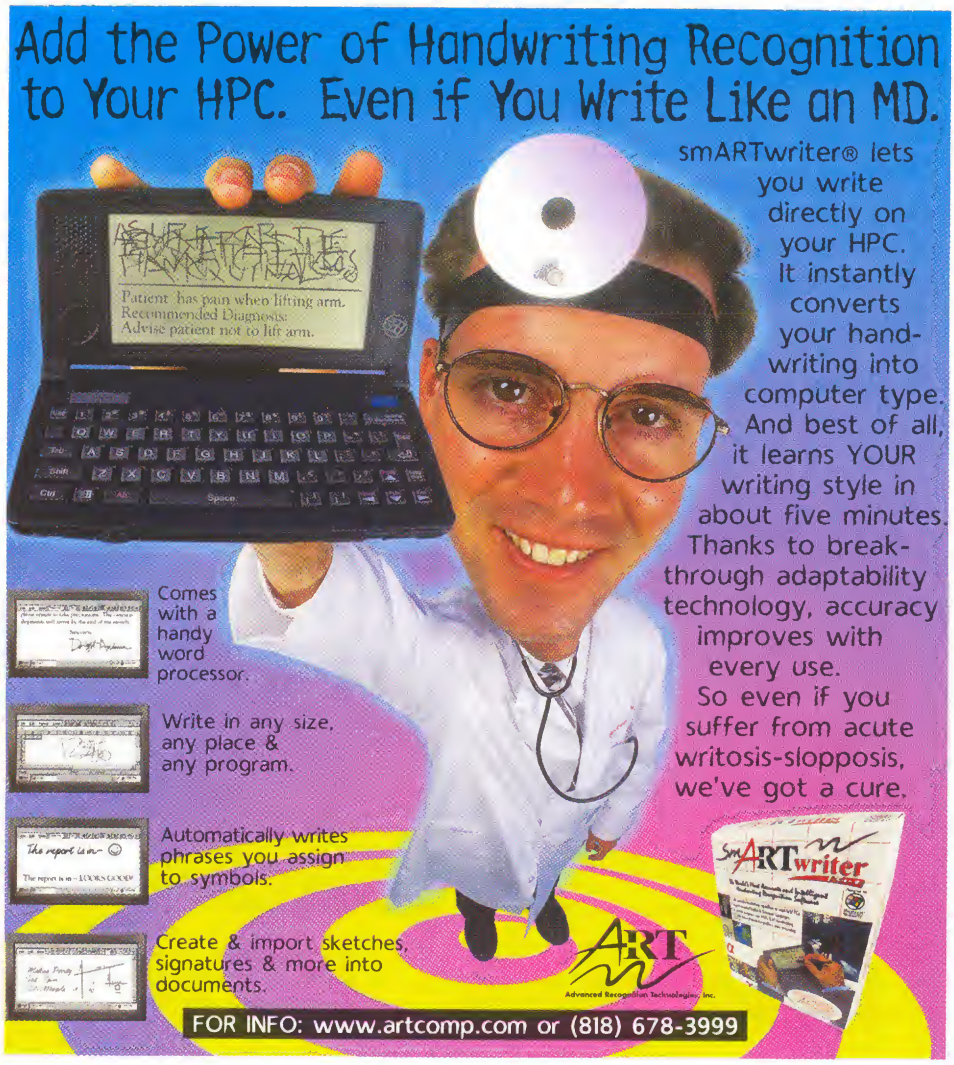
10 Mb Flash RAM — $299
(Part #266517-001) - A type II PC card that allows you to increase storage and create secure backups by adding 10 Mb of ATA-compatible flash RAM storage.

14.4 LP PC Card Modem — $149
(Part #266507 -001) - A "battery-friendly" 14.4 Kbps modem that lets you check e-mail and browse the Web. Allows for use of up to one hour on AA battery power.

Power Pack — $95
(Part #266514-001) - Provides you with everything you need for rechargeable power operation, including Quick Connect, AC adapter, NiMH battery pack, and battery charger.

Combo Pack— $38
(Part #266520-001) - Includes an AC adapter and Quick Connect (a mini port replicator which provides serial, AC adapter, and battery charger ports) for quick and easy PC connection.

Convenience Cradle — $35
(Part #266513-001): Use this execu-



tive-style cradle to provide quick docking for your PC Companion. Connects to both Auto-Sync cable and Battery charger connections. Also includes convenient stylus holder.

AC Adapter — $19
(Part number 266509-001) - Connect the AC Adapter to the Quick Connect to power your PC Companion while docked.

Battery Charger — $293
(Part number 266511-001) - Use with the AC Adapter to charge the optional NiMH rechargeable batteries. The Battery Charger connects directly with the PC Companion, QuickConnect, or Convenience Cradle.

Pack Stylus — $6
(Part number 266515-001) - Three-pack of spare styluses to keep on hand in case you misplace your stylus.

Carrying Cases — $29
(Part number 266572-001) - Provides cushioned protection for your PC Companion while out of the office. Has room to store PC card options, notes, business cards, and credit cards.

Slipcase — $10
(Part number 266573-001) - Sleek, handy slipcase provides protection for your PC Companion.

For more information, contact your local Compaq dealer or: Compaq DirectPlus Phone: 800-888-0593 (in the U.S. only). Online: http://www.compaq.com

Hewlett-Packard

HP 620LX Palmtop PC

Hewlett-Packard's new 360LX and 620LX come with the Windows CE 2.0 operating system, all of its improvements and suite of Pocket applications. Both H/PCs feature direct-print capability, a well-spaced QWERTY keyboard, easy-to-read TrueType fonts, serial port, infrared ports, and a CompactFlash Card slot. Both are powered by rechargeable batteries.

The HP 360LX — comes with a 60 MHz CPU, 8 Mb RAM. The 360LX features a large 640x240 monochrome screen with "natural-white" backlighting. The 360LX is powered by two AA rechargeable NiMH batteries. Accessories included with 360LX package: User Guides; Two AA NiMH batteries; One CR2032 coin cell backup battery; CD ROM with free software.

The HP 620LX — Comes with a 640x240- pixel 256 color screen with natural white backlight. The 620LX has a 75MHz CPU and 16 Mb of RAM. In addition to the ports mentioned above the 620LX has a built in microphone and audio speaker which supports its Voice Recorder.

The 620LX comes standard with a Lithium-Ion rechargeable battery pack and an AC adapter. Accessories included with 620LX package: Lithium-Ion battery pack; One CR2032 coin cell backup battery; two CD ROMs with free software; Synch cable; Docking Cradle; AC Adapter.

Software built into the 360LX and 620LX

Both units come with Windows CE 2.0, its accessories and "Pocket" applications (see Windows CE 2.0 review, page 6). In addition, the new HP Palmtop PCs have the following software built into ROM: bFAX Pro lets you send and receive faxes; bFIND is a global search utility. Financial applications software (full versions available when you register your Palmtop PC); Remote Networking; (to PPP access servers); Terminal Application (TTY, VT-100).

HP 620LX — $N.A.
16 Mb RAM, color display

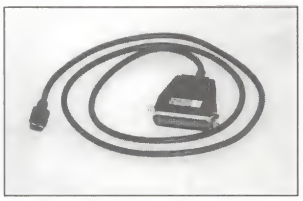
HP 360LX — $699
8 Mb RAM monochrome screen

HP 320LX — $599
4 Mb RAM, monochrome screen

HP 300LX — $499
2 Mb RAM, monochrome screen

New! Link-A-Printer II

Smaller size & Attached cable



Link-A-Printer II is a serial to parallel converter that allows direct printing from your Windows CE HPC to any parallel printer. It also works with the HP 100/200/300LX and the HP OmniGo. Some HPCs may require bPrint software.

$79

Also Available Link-A-Printer I

Requires HPC to computer connectivity cable and optional battery Features auto on/off fixed 9600 baud

$59

Now Available

bPRINT, bFAX, and bFAX Professional software for use with Windows CE HPCs.

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Tel: 704-875-8490
Fax: 704-875-2801
Toll Free: 800-476-4070

Greenwich Instruments LTD
European Distributor
Tel: 011-44-181-302-4931
Fax: 011-44-181-302-4933

Additional software on CD ROM

H/PC Explorer version 2.0: desktop PC software for connecting HP palmtop PC to PC); **Translation software:** converts HP 100/200LX & OmniGo 100/120 appointment/ phone books to H/PC formats; **Trial software** from independent software vendors, including: Mail on the Run!; Pocket On-Schedule; Ardis wireless solutions bundle; Wyndmail /CE and more.

Windows CE 2.0 Upgrades

Hewlett-Packard Company will provide a ROM upgrade program for the latest Microsoft Windows CE 2.0 for the handheld PC operating system for the HP 320LX palmtop PC. (The upgrade is not available for the HP 300LX) The new upgrade is available free to customers who purchase the HP 320LX after Sept. 2, 1997. The HP 320LX ROM upgrade can be installed easily by the user, and does not require the sacrifice of a memory slot or the use of special tools or outside support.

ROM Upgrade Kit: $129 (U.S.)
(Free to 320LX purchases after Sep. 2, 1997) Available: Dec., 1997 through Feb. 28, 1998

Accessories and Other Available Options (prices suggested retail)

HP CompactFlash Memory plus PC Card slot adapter
2 Mb (# HP F1229A) — $99
4 Mb (# F1231A) — $149
10 Mb (F1233A) — $ 299
15 Mb (F1245A) — $ n.a.

AC Adapter
300-360LX (HP F1218A) — $29.99
620LX (HP F1241A) — $n.a.

HP Docking Cradle/AC Adapter
300-360LX (HP F1224A) — $29.99
620LX (HP F1241A) — $n.a.

Sync. Cable (HP F1223A) — $14.99

HP Leather Case (HP F1227A) — $69

Stylus 3-Pack
300-360 (HP F1225A)— $9.99
620LX (HP F1247A))— $n.a.

620LX battery packs
Standard (HP F1253A))— $n.a.
Extended (HP F1254A))— $n.a.

620LX VGA PC Card adapter
(HPF1252A) — $n.a.

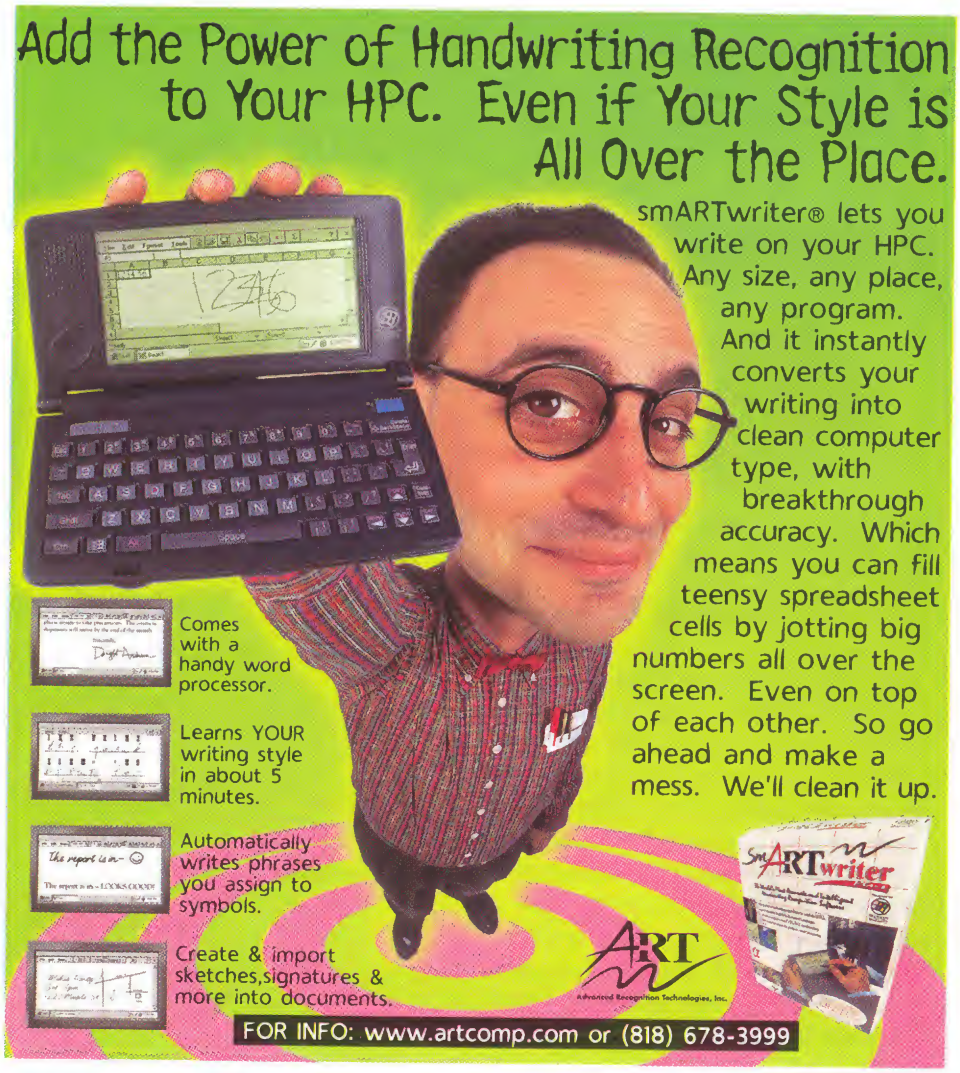
620LX External Charger
(HP F1246A0) — $n.a.

For more information on the HP palmtop CE or the HP 320 Upgrade program, contact your local HP dealer or: Hewlett-Packard Company; Phone: 800-443-1254; Online: www.hp.com /handheld

Hitachi

Hitachi Handheld PC

Hitachi's new Handheld PC with Windows CE 2.0 will be available in the first quarter of 1998. Price and product description have not yet been announced.



Hitachi Handheld PC — $N.A.
(with Windows CE 2.0, available 1st quarter, 1998

Hitachi Handheld PC— discontinued
2 Mb RAM (HPW10E2)

Hitachi Handheld PC — $499.95
4 Mb RAM (HPW10E4)

Hitachi Handheld PC — $599.95
4MB with 28.8 bps modem(HPW10E)

Windows CE 2.0 upgrade not available for Hitachi Handheld PCs.

Accessories and Other Available Options *(prices suggested retail)*

AC Adapter (HPWMB10) - **$49.95**

Serial Cable (HPWSC10) - **$24.95**

28.8 bps Modem Board (HPWMB10) - **$179.95**

For more information, contact your local Hitachi dealer or: Hitachi Home Electronics (America); Phone: 770-279-5600 or 770-279-5696; Web site: www.hatichi.com.

L G Electronics

LG Phenom Handheld PC

LG Electronics unveils its second generation model of the LG Phenom Handheld PC. The LG Phenom was specially designed to take full advantage of WindowsCE 2.0. The Phenom has been updated with a wide (640x240) backlit screen, 8Mb RAM, VGA out-port with cable, voice memo capability, and built-in fax/modem. Additionally, there is a Type II PCMCIA slot and Compact Flash slot for user expandability. The new Phenom sports a Hitachi SH7709 processor and is 7.7" W x 4.3" D x 1.2" H.

The LG Phenom offers a complete handheld solution with its standard package configuration of rechargeable batteries, built-in charger, docking station, power adapter and CD-ROM bundled with a whole host of third party software applications (well over a $100 enduser value!).

LG Phenom — $699
8 Mb RAM, Windows CE 2.0

LG Phenom — $399
4Mb RAM, Windows CE 1.0

LG Phenom — $579
4Mb RAM, built-in 28.8kpbs fax, Windows CE 1.0

All accessories are included in the standard package (4 rechargeable batteries, battery recharger, power adapter)

Windows CE 2.0 Upgrades

LG will offer a Windows CE 2.0 upgrade for existing Phenom users. Details have not been worked out.

For more information, contact your local LG Electronics dealer or: LG Electronics; Phone: Customer Information Center 1-800-243-0000. Web site: www.lge.co.kr.

NEC

NEC MobilePro 700

NEC's new MobilePro 700 comes with Windows CE 2.0 built in, an NEC 54 MHz low power MIPS VR4102 processor, 8 Mb of RAM (expandable to 32 Mb), and 16 Mb of upgradeable ROM. It's longer and wider than the earlier MobilPro (9.65 x 4.8 x 1.22 inches) and weighs in a bit heavier (1.48 lbs). Its added size lets it sport a larger (and easier to type on) QWERTY "finger friendly"

Windows CE
Pilot, Geos, Newton & Zaurus
✓ Custom Development
✓ Messaging Applications
Virtual Courier™ – cc:Mail
MS-Mail/Exchange connection.
Exchange forms & Lotus Notes
✓ International Porting
MicroBurst, Inc.
15732 CRABBS BRANCH WAY, SUITE 200
ROCKVILLE, MD 20855
PHONE (301) 330-2995
FAX (301) 330-8609

keyboard. It also has a larger and easier to read monochrome display (640 x 240 Backlit LCD Touchscreen 7.3" diag.). It comes with a built-in 33.6Kbps low-power hardware modem.

The MobilePro 700 is powered by 2 AA Alkaline batters (25+ hours) and an optional Lithium Backup that can be charged in an external battery charger. It comes with one PCMCIA Type II Slot, one Compact Flash Slot, a VGA port to connect the MobilePro to an external monitor for presentations (cable adapter included); serial and IrDA infrared ports.

New to this version of the MobilePro is voice recording capability with built-in microphone and speaker. MobilePro also comes with Quick Keys, which lets users program keys to launch applications.

The NEC MobilePro 700 comes standard with an AC adapter, PC cable, RJ-11 cable, batteries; Windows CE Services 2.0 with Pocket Expedia and MobilePro Bonus Software CD (see below). It features a 1-year parts and service warranty and a 90-day software warranty.

NEC MobilePro 700 — $N.A.
Includes Windows CE 2.0, 640x240 screen, AC adapter, PC cable, RJ-11 cable, batteries; Windows CE Services 2.0 with Pocket Expedia and MobilePro Bonus Software CD.

NEC MobilePro 400 — $399
Includes Windows CE 1.0, 480x240 screen, Docking Cradle, PC Cable, AC Adapter.

NEC MobilePro 450— $499
Includes Windows CE 1.0, 480x240 screen, Docking Cradle, PC Cable, AC Adapter.

Bonus Software Bundle

MicroBurst Virtual Courier: for accessing cc:Mail or MS-Mail on the road

Symantec pcANYWHERE: the fastest, easiest way to remotely access files, applications and information that are on another PC

Puma Intellisynch: for synchronizing your MobilePro with other PC-based PIM applications including Symantec ACT and Lotus Organizer

bSquare bFAX: for faxing from the MobilePro

CIC QuickNotes: an electronic notepad for taking handwritten notes on the MobilePro

CompuServe Sprynet: for accessing CompuServe from the MobilePro

Windows CE 2.0 Upgrade Program

Details unavailable.

Accessiories and Other Available Options *(prices suggested retail)*

16Mg Memory Upgrade — $N.A.
(for the MP 700)

32Mg Memory Upgrade — $N.A.
(for the MP 700)

Compact Flash Card — $N.A.
(for the MP 700)

Docking Cradle — $47
(for the MP 400-450)

Direct Cable — $19.95

VGA Cable — $N/A

NiMH Battery Pack — $29

Battery Quick Charger— $89
(Battery include.)

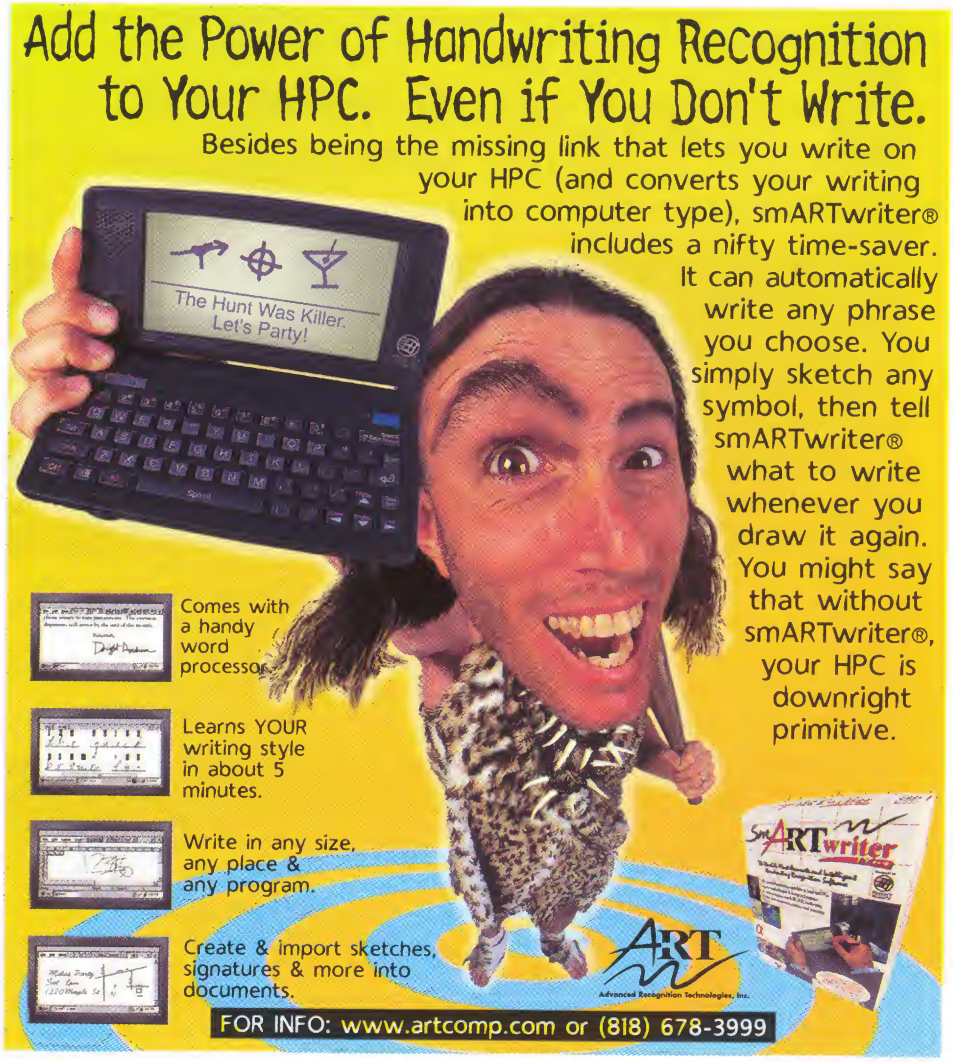
AC Adapter— $34.95

Modem Cable — $19.95

Stylus Pak (3-pens) — $6.95

Carrying Case — $39.95

The MobilePro 700 will be available in late November. For more information contact: NEC; Phone: 888-8NEC-NOW; Tech Support: 800-632-4525; Web site: www.neccomputers.com/products/mobilepro



Philips

Philips Velo 500

Philips Velo 500 Handheld PC

Philips Mobile Computing Group has announced the release of the Philips Velo 500 Handheld PC running the Windows CE 2.0 operating system. The Velo 500 comes with a 75 MHz MIPS processor, 8 Mb or 16 Mb of internal RAM (expandable to 40 Mb or 48 Mb with an optional 32 Mb DRAM Miniature Card), a built-in low power 28.8 Kbps modem with 9600 Kbps fax, 1 DRAM Miniature Card slot, 1 Flash/ROM Minature Card slot, and an enhanced LCD screen capable of either 480x240 or 640x240 pixel display and 16 levels of greyscale.

All Velos include built-in fax/modem, Velo Voice Memo system, two Intel-based Miniture Card expansion slots, built-in phone jack, phone cord, rechargeable NiMH battery pack, and docking station with AC Adapter.

Velo 500 8 Mb —$699.99
(with 28.8 internal modem)

Velo 500 16 Mb — $839.99
(with 28.8 Kbps internal modem)

Velo 1 — $599.99
(4 Mb RAM, 19.2 Kbps internal modem, no rechargeable battery pack)

Velo 1 — $699.99
(with 19.2 Kbps low power internal mode, rechargeable battery) **$639.99**

Velo 1 — $839.99
(8 Mb RAM, 19.2 Kbps low power internal modem; sold exclusively online at Velo Store www.velo1.com)

Velo accessories available:

2 Mb DRAM Card — $ 99.99

4 Mb DRAM Card — $179.99

2 Mb Flash Miniature Card— $119.99

4 Mb Flash Miniature Card— $199.99

Velo Docking Station — $79.99

PC Card V-Module — $99.99

Velo-to-PC Serial Cable— $39.99

NiMH Rechargeable Battery Pack— $39.99

Traveling AC Adapter — $39.99

Velo Carrying Case — $49.99

Windows CE 2.0 upgrade program

Velo 1 upgrade to Windows CE 2.0 — free with purchases of a Velo 1 between Sep. and Dec. 31 1997. Outside those dates — $99.99.

For more information contact: Philips Mobile Computing Group; Phone: 888-FOR-VELO (367-8356), 408-558-2200. Fax: 408-558-2222; Email: N/A; Web site: www.velo1. com. U.S. Retail outlets include: CDW, CompUSA, CompUSA Direct, Mobile Planet, PC Connect, PC Zone. Velo Store on line at www.velo1.com

Sharp

Sharp Mobilon with Color LCD Touchscreen

On October 13 Sharp announced their Mobilon handheld PCs. The Mobilon will be available in three models. The HC-4000 and 4100 will have a 16-gray scale monochrome LCD touch screen and the HC-4500 — the first H/PC to sport a 256 color LCD touch screen. The monochrome versions of the Mobilon will have either 4 or 8 Mb of internal RAM and the color Mobilon comes with 8 Mb RAM. The only other difference is that the 4500 comes with a recharge-

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Internet: http://www.shier.com
E-mail: **info@shier.com**

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Put our expertise to work for you.

able NiMH battery pack and the 4000/4100 use AA alkalines. However, 4000/4100 users can purchase the rechargeable battery pack as an option. Battery pack recharges in the Mobilon when connected to the AC adapter.

Common Features

All Mobilons will use the 73.7 Mhz MIPS processor, and come with upgradeable ROM. The three models come with a built-in 33.6Kbps data/9.6Kbps fax lower power modem. In addition, they each have one Type II PC Card slot, a serial port and an IrDA 1.1 compliant 115.2Kbps infrared port. Mobilon comes with a 64-key keyboard + 7 one-touch application keys to quickly switch between the most used programs. Mobilon comes with LED indicators that notify you of Calendar and Task reminders, World Clock daily alarms, when it's time to charge the batteries, when your modem is connected, and when you are recording a voice memo. All Mobilons are WAV file compatible, which means you can record voice messages with the built-in microphone, and play it back with the built-in speaker, and there is an external record button. Mobilon comes with the following accessories included: AC Adapter, CR2032 Lithium backup battery, a PC Link serial cable, an RJ-11 modular phone cable, and a stylus. The 4500 comes with a NiMH rechargeable battery pack as a standard feature.

Mobilon HC-4500 — $600-900 (est.)

Comes with 8 Mb internal memory and high-contrast color LCD touch screen with backlighting. Powered by a rechargeable NiMH battery back.

Mobilon HC-4000/4100—$600-900 (est.)
Comes with 4 Mb or 8 Mb of internal memory and high-contrast gray scale touch screen with backlighting. Powered by two AA alkaline batteries.

Software included

Windows CE 2.0: operating system and applications.

bFax Express: send faxes from the Mobilon.

Voice Recorder: record voice memos on the Mobilon.

Image Editor: view and edit graphics on the Mobilon.

Sharp Zaurus Data Transfer: transfer data between the Mobilon and a Sharp Zaurus via infrared ports.

Microsoft Windows CE Services: install on PC and transfer/synchronize data between Mobilon and Office 95/97.

IntelliMigrate: install on PC and transfer data between Sharp Zaurus/Wizard/Electronic Organizers to the Mobilon, ZR, OZ, YO-600 series and ZQ-5000/5200 models.

Microsoft Schedule+ 7.0a: desktop scheduler.

Mobilon Accessories available

Docking Station Kit—$150 (approx.) (HC-DS01): Simplify connecting and synchronizing with your desktop PC. Includes docking station, NiMH rechargeable battery pack, AC adapter.

NiMH Rechargeable Battery Pack — $60 (approx.) (HC-BN01): Spare battery pack for the 4500. Can be used with the 4100/4100.

Digital Camera Card — $400 (approx.) (CE-AG04): Slips into the Mobilon's PC Card slot and turns your Mobilon into a color digital camera. the Mobilon HC- 4000 and 4100 will not display the color photo, but. the graphic file is color and can be transferred to a computer with a color monitor and displayed in full color.

For further information on the Sharp Mobilon, contact your local Sharp dealer or Sharp Electronics Corporation; Phone: 800-BE-SHARP; Fax on demand: 630-397-8601; Web site: www.sharp-usa.com.

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Priority Focus, a Handheld PC training company, introduces "Self Management with the Handheld PC." This course unlocks the HPC's potential for the mobile professional.

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TARGUS MAKES A CASE *for* HANDHELDS

TARGUS LIFETIME Warranty

Targus, the worldwide leader in computer luggage, introduces six new carrying cases designed for PDA's, Handheld PC's and Mini-Notebooks. Perfect for mobile computer users, these cases range from a basic slip-case to a luxurious leather portfolio that will accommodate all your travel accessories. The Targus Handheld Cases will keep you organized and make your Handheld PC a complete portable solution. Like all Targus products, these cases are covered by our Lifetime Replacement Warranty.

1. **PDA/Handheld PC Slipcase** accommodates all popular models of PDA's & H/PC's plus PC cards. Includes outside pocket and a belt clip.

2. **PDA/HPC Leather Wallet** accommodates all popular models of PDA's & H/PC's plus PC cards, disks, credit & travel cards, pen, business cards & a checkbook .

3. **PDA/HPC Leather Double Wallet** accommodates all popular models of PDA's & H/PC's plus PC cards, disks, spare batteries, credit & travel cards, pen, business cards & a checkbook.

4. **Leather PDA/HPC Travel Wallet with Cellular Phone Pocket** accommodates all popular models of PDA's & H/PC's plus PC cards, wireless PC cards, disks, spare batteries, credit & travel cards, business cards, pen, cable and a checkbook.

5. **Leather Mini-Notebook Wallet** accommodates Mini-Notebooks like the Toshiba® Libretto™and a spare barrery pack plus PC cards, credit & travel cards, business cards & a pen.

6. **Full-Size Leather Portfolio for PDA/HPC/Mini-Notebook and Accessories** accommodates all popular models of PDA's, H/PC's and Mini-Notebooks plus cellular phone, PC cards, disks, spare batteries, credit & travel cards, business cards, pens & writing pad.

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ENHANCE YOUR H/PC

A World Of H/PC Possibilities

By Carol de Giere, Products Editor

According to Microsoft, over 100 independent software and hardware vendors have developed, or are in the process of developing a total of over 250 applications and peripherals for the Windows CE platform. Take a look at the reviews, product listings and advertising in this issue and you may feel a sense of awe at the wide range of possibilities for Handheld PC users. In fact, you may even feel there are too many good products to choose from. We've organized them by the function they serve. But we could have just as easily organized them by two trends we see emerging in the development of products for the Windows CE operating system: "filling in the gaps" and "leveraging mobility." Here are a few samples from the rich resources available.

Filling in the Gaps: Patching the Holes with Powerful Programs

We heard from a number of users who were disappointed that Windows CE didn't include a sophisticated calculator. Third party developers quickly began to fill that gap with a variety of programs. LandWare's Fiscal Pro (page 36) is a forms-based financial problem solver, which mimics the look and feel of the HP Calculator application found on Hewlett-Packard's 100/200LX Palmtops. It includes amortization, currency and unit conversions, date calculations, and investment analysis—virtually every HP Calc feature except Solver. Also from LandWare comes Financial Consultant (page 36), a program that supports investment and real estate functions, and Pocket Finance (page 36), and a checkbook application that exchanges account entries with Intuit's Quicken and Microsoft's Money desktop applications. At press time, LandWare was close to finishing proCALC ce (page 37), a problem solver with built-in science statistics, finance and trigonometric functions.

REVIEWS COMING SOON

We have number of important reviews coming in future issues of *Handheld PC Magazine*, including:

Turn your H/PC into a Power Calculator

The Ins and Outs of Wireless Messaging

Staying in Sync with the H/PC

Handwriting on your H/PC

Another important calculator program is Pocket BizCalc (page 36) from Odyssey Computing. This program emulates the popular HP-12C business/financial calculator. Pocket Convert (page 36) from Surerange converts between currencies, while their Pocket Solver (page 36) solves equations. MVA Software's Proficiency! (page 37) is an RPN (Reverse Polish Notation) calculator with business, financial, statistical, scientific, engineering and programming functionality.

Finally, Applied Technologies announced a free beta version of CoolCalc (page 36), a programmable business and scientific calculator, with the power to enable users to define their own calculator and formula screens. iambic software reports that their Time Reporter (page 37) for Windows CE will be ready soon, allowing users to calculate time billings.

Another feature missing on the H/PCs is a good "find" tool. You can search for text in a Pocket Word document and data in a Pocket Excel worksheet, but you can't do a global search on the H/PC. Fortunately, two utilities have arrived to save the forgetful-minded. A global-find utility called bFIND (page 48) is now available from bSquare development. In addition, LandWare's Productivity Pac (page 48) includes FindForce as well as 5 other practical utilities.

H/PCs go with you anywhere, giving you the potential to collect important data wherever you go. Special input devices and software are now helping to actualize this potential. The Sales Assistant (page 26) barcode entry system from Corvallis System Sales Corp. supports mobile order writing, while the Socket Bar Code Wand Card

(page 26) from Socket Communications' attaches a pen-like wand to a PC card in your H/PC to let you collect bar code data. Advanced Recognition Technologies is coming out with a series of speech input products, including smARTcontact, smARTcommand, and smARTmemo. (page 47). Finally, there are a number of handwriting recognition programs available for the H/PCs (page 42).

One of the biggest gaps to fill was the absence of a flexible database program with Windows CE. A number of companies stepped in to meet this need. Contact Management databases such as ACT! from Symantec and Pocket On-Schedule 2.0 from Odyssey Computing fulfill one type of need (product listing page 38, review page 62). The AllPen Mobile Forms Database (page 38, review page 63) marketed satisfies the need for a simple, flat-file database by LandWare. FormLogic (page 38) from Wright Strategies lets field workers replace a clipboard with a handheld and automate business processes such as retail merchandising, order entry, patient data collection, market research surveys, and field inspections. Visual CE (page 38) from Syware also allows users to create databases and forms-based applications, while RuppSoft's Z-Flash CE Educational Database (page 38) lets users customize the H/PC as an education tool, based on a database type structure.

Leveraging Mobility: a Must!

When is a mobile computer not a mobile computer? When its battery is dead and there's no power source in sight! One company coming to the rescue is KIWIGREEN. Some of KIWIGREEN's H/PC carrying cases come with a rechargeable NiCd battery which provides additional power for your H/PC, especially important when using your handheld PC with a PC modem card. (Kiwigreen's cases are marketed by Viatek — see page 26.) If you have a AC power source near-by, JJA Microsystem's 15 Minute Super Charger (page 31) gives H/PC batteries a boost in 15 minutes. Many of the PC modem cards for Handheld PCs have relatively low power consumption. But they can still drain the H/PCs main batteries quickly. EXP's ThinFax CE/M Card (page 28) offers a detachable battery pack to provide additional power during modem use.

Of course two-way communication and synchronization are vital for real-life mobility. Information collected on the road can be synched with a number of desktop Personal Information Managers (PIMs) as well as with databases on corporate Intranets. The list of synchronization programs has expanded to include Desktop To Go, InSync!, Intellisync, Maximizer CELink, or Randsoft Harmony 97. For broader remote connections, you can use ASL-Connect, pcANYWHERE CE or Pocket Carbon Copy. Anyone using JetForm forms on their desktop, should check out JetForm Filler CE, a Windows CE two-way transfer system.

For maximum mobility, investigate the ten different full-service wireless or pager systems available (page 32). And if you need to know where you are at all times, TeleType GPS (page 44) lets you access the Global Positioning Satellite system to find your latitude, longitude, height above sea level, and the speed and direction you are traveling. You can even integrate this information with maps to help you find your way.

Speaking of finding your way, when third party products were scarce, making buying decisions was easy. Now, with over a hundred products to choose from, you need a good map to help you make the decisions. We hope this issue of *Handheld PC Magazine* provides you with the signposts you need.

DELUXE CARRYING CASES CUSTOM-MADE FOR YOUR NEW HP 300/320LX PALMTOP PC!

Genuine glove soft leather executive model, with storage compartments for cables, papers, etc. and battery and pe holders. $29.95 + S & H.

A. $29.95

B. $24.95

Genuine glove soft leather pouch with handy belt clip. $24.95 + S & H.

Genuine neoprene "wetsuit material" sport model with shoulder strap and storage compartments for cables, papers, batteries and pens. Available in black and purple. $19.95 + S & H.

C. $19.95

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H/PC PRODUCTS

A Comprehensive Listing

H/PC Products *listed here include hardware, software, services, and resources. Prices listed are suggested retail price. Unless otherwise indicated, software products are delivered on floppy disk. Listings do not represent an endorsement by the editors. We have tried to include a comprehensive collection of products available by fourth quarter, 1997. However, there will be gaps due to information not arriving by our printing deadline. If you have a product to announce in our next issue, please send an email message to editor@thaddeus. com. For live links to the web sites mentioned in this section, visit our web site at www.thaddeus.com, or purchase our PowerCD.*

Hardware

Accessories

Brain Wash

Brain Wash is a two-step cleaning system designed to prolong the screen life of handhelds and other electronic equipment. It removes dust and debris while providing a clear, anti-static coating.

Price: $14.95; S/H: $2.24
Also available: Karma Cloth, which cleans the H/PC screen with a gentle material that buffs out minor scratches.
Price: $9.95 (2-pack, reusable) Shipping: $1.49
The Concept Kitchen
Phone: 415-252-3333; Fax: 415-252-3323;
Email: info@conceptkitchen.com
Web: www.conceptkitchen.com.

Clipstand™

The Clipstand telescopic copy holder with suction cup base and 5 clear adhesive discs, enables user to temporarily affix a base to an H/PC or to any surrounding surface. Clip is atop an angle and length adjustable telescoping arm which extends to 15 inches for up to legal size sheets or retracts to 6 inches for compact storage.

Price: $9.25 S/H: $4.50
Autel Corporation
Phone: 408-738-8204; Fax: 408-738-1353
Email: autel@prodigy.com

DigitalWriter from Cross Pen

The Cross DigitalWriter stylus comes in five distinct styles in a variety of finishes. 28 different styles are available.

Price Range: $12.50 to $250
Cross Pen Computing Group
Phone: 800-510-9660 / 401-333-1200
Fax: 401-334-0650
Web: www.cross-pcg.com

Mini-Palmtop Computer Lights

Mini-Palmtop Computer Lights are battery-operated and illuminate the display, keyboard, and work area of any HP/C.

Price: from $19.95 to $29.95 S/H: $4
ASF Associates Ltd.
Phone: 800-936-3638 / 516-868-3918
Fax: 800-625-6897 or 516-868-6897
Email: asf1@ix.netcom.com
Web: www.std.com/asf1

Palmtop Clip-on Light

The Palmtop Clip-on light with 7 inch polymorphic plastic-rubber gooseneck lets user suspend light source above keyboard and display to clearly illuminate both without bulb spot reflection (light source is not off to side and wasted by reflection). It clips onto left edge of display of an H/PC by catching upper plastic tines on edge of display and rotating 90 degrees to slide lower tine onto back of display case. Uses 2 AA batteries (not included). Rolls into ball to store very compactly.

Price: $11.95 S/H: $4.50 per order
Autel Corporation
Phone: 408-738-8204; Fax: 408-738-1353
Email: autel@prodigy.com

Optitech Microfiber TechCloth

The Optitech Microfiber TechCloth is a high density, high absorbency cloth designed to clean computer screens, electronic equipment, and CDs. It is said to be "virtually static free" and safe to use on anything sensitive to static electricity. The material is made from polyester and nylon fibers, and can be used without additional liquid cleaners.

Price: $10 S/H:$3.99
OptiTech International
Phone: 800-639-9722 / 412-471-7870;
Fax: 412-471-8988

WriteRight Screen Enhancements

The Concept Kitchen's WriteRight Screen Enhancements are a thin, clear, textured overlay created from a specially-engineered material. They may be used to eliminate screen scratches because they provide a thin protective layer between the stylus and the H/PC screen, without reducing screen sensitivity. They are reputed to improve handwriting recognition through the use of an improved surface texture that simulates the natural feeling of writing on paper with a normal pen. The patented surface treatment eliminates glare.

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Price: $27.95 (12-pack, one year's supply) S/H:$4.19
The Concept Kitchen
Phone: 415-252-3333 Fax: 415-252-3323
Email: info@conceptkitchen.com
Web: www.conceptkitchen.com.

Bar Code

Socket Bar Code Wand Card

This barcode input product integrates Socket Communications' top selling serial PC Card with Welch Allyn's 6180 barcode scanner/decoder. When users insert the card into the PC Card slot of any Handheld PC, they can then use the attached pen-like wand to collect bar code data directly into any Windows CE application.

Price $399
Socket Communications, Inc.
Phone 800-552-3300 / 510-744-2700; Fax 510-744-2727
Email: wandcard@socketcom.com
Web:www.socketcom.com

Sales Assistant Barcode Entry System

The Sales Assistant system supports mobile order writing. It runs on the HP 320LX Handheld PC (or HP 200LX in DOS). It scans barcode labels or allows entry of item number. Orders can be sent by modem directly to manufacturer. System package includes printer, modem, cables, carrying case, etc.

Price: Varies
Corvallis System Sales Corp.
Phone: 800-733-5017
Email: csscorp@e-z.net

Cases

Baker Products H/PC Cases

Baker Products' cases are made of leather or neoprene "wetsuit" material. They feature Velcro attachment, removable handstrap, and credit card or PC card slots. Different cases are available for specific H/PCs, including the larger HP 300/320LX. Baker Products will also custom-make cases upon request.

Price Range: $19.95 to $29.95
Baker Products, Inc.
Phone: 800-444-0611
Fax: 212-554-4248
Email: qqsr05a@prodigy.com
Web: www.bakerproducts.com

E & B Leather Cases

E & B sells a variety of leather cases custom designed for Handheld PCs and other small computers. Cases offer protection to H/PCs as well as convenience for carrying purposes.

Price: varies
E & B Company
Phone: 800-896-2273/916-782-5169
Fax: 916-782-9306
Web: www.ebcases.com

Handheld PC Cases from ISOTA

ISOTA cases for the H/PCs include additional room for spare batteries, PC cards, pens, cash, and credit cards. Styles available include: executive portfolio, hip holster, all-terrain hip lok, metropolis portfolio and armour-coate sheath.

Price: $25-$199 S/H: $15 FedEx
Rupp Technology Corp, distributor for Isota;
Phone: 888-994-7682/602-941-4789;
Fax: 602-941-5505;
Email: catalog@isota.com
Web: www.isota.com

ISIS Leather Case

This slip case fits most Handheld PCs. It is leather with velcro flap.

Price: $30 including shipping
ISIS, Phone: 800-624-8882/303-665-2300
Fax: 303-665-2323

Leather Cases from Chameleon

Chameleon of the United Kingdom offers a PalmPac leather case model No. S112 which fits the Handheld PCs. The case is zippered and has space for credit cards, memory cards, and batteries. It is padded to protect the Handheld and comes with a detachable hand strap.

Also available is the Executive-Pro leather wallet, model #S109 without the zipper.

Price: $69.99 for Model S112
$59.00 for Model S109
Chameleon Distribution Ltd
Phone: 44-171-630-5736
Fax: 44-171-834-3473
Email: Chamele66@aol.com

KIWIGREEN Case with Battery for H/PCs

Viatek sells KIWIGREEN cases and batteries for H/PCs. Cases come in nylon as well as high-quality leather with thermal insulation. All cases contain pockets for the battery, PCMCIA card and personal items. NiMH battery provides 3500 mAh of power. Battery allows up to 8 hours online use before recharging is necessary.

Price Range: $39.95 (without battery) - $279.95 with battery with high quality leather) S/H$12.50 FedEx
Viatek, Inc.
Phone: 817-430-2075; Fax: 817-430-3755
Email: viatek@viatek.com
Web: www.viatek.com

The Pouch

Pouch Manufacturing's neoprene and nylon cases protect H/PCs with cushioned, shock-resistant material. They are durable and washable. Custom sized for every H/PC. Not leather.

Price: $18 S/H: $4.95 USA priority
Phil Richardson
Phone: 800-727-6824 or 520-290-5792
Fax: 520-290-5792
Email: thepouch@microwest.com
Web: www.microwest.com/thepouch

Pygmy H/PC Cases

Pygmy offers a variety of cases for Handheld PCs. These include executive leather grained cases.

Price: $9.95 to $39.95
Pygmy
Phone: 888-807-4472/305-253-1212
Fax: 305-255-1876; Email: sales@pygmy.com
Web: www.pygmy.com

Targus for Handhelds

Targus handheld cases range from simple slipcases with a belt clip to full-size leather portfolios to hold an H/PC plus a wide range of accessories, including a cellular phone. There are also zipped and non-zipped "wallets" for holding an H/PC and credit cards, pen, checkbook, etc.

Price Range: $19.95 to $99.99
Targus
Many major computer and office super stores carry them.
Or call the Targus fulfillment line;.
Phone: 800-400-1011/714-523-5429
Fax: 714-523-0153
Web: www.targus.com

XLC320 and XLC320Z Executive Leather Case

These cases offer padded protection for Handheld PCs and feature pockets for cards and checkbook, notepad, and pen or pencil. Model XLC320Z includes zipper lock and wrist strap. There is also a XLC250 which holds AC adapter, batteries, cables, and other material in addition to the H/PC.

Price: $44.95 (XLC320) $49.95 (XLC320Z) $69.95(XLC250)
Your One-Stop Palmtop Shop
Phone: 800-709-9494/608-752-1537
Fax: 608-752-9548; Email: gc@midplains.net
Web: www.mrpalmtop.com

Ethernet Adapter

CreditCard Ethernet+Modem 33.6 with MiniDock

The Xircom CreditCard Ethernet+ Modem 33.6 features a high-performance 10Mbps Ethernet adapter and high-speed 33.6Kbps modem in a single PC Card. The unique MiniDock connector combines both Ethernet and modem connectors in a single, durable device. Other features include Digital Shield, cellular support, modem/LAN LEDs, a hassle-free installation program, and a unique GlobalACCESS model for world travelers.

Price: $309
Xircom
Phone: 800-438-4526
Web: www.xircom.com.

Infrared Adapter

ACTiR 220L Infrared Adapter for PCs

Because Handheld PCs have an infrared port, users can attach this adapter to their PCs to transfer files or synchronize data. ACTiR-PC IrDA PC adapter connects to the standard RS232 com port on any computer.

Price: $69 S/H: $8.50
ACTiSYS Corp
Phone: 510-490-8024; Fax: 510-623-7268
Email: irda-info@actisys.com
Web: www.actisys.com

ACTiR 100M Printer Adapter

The ACTiR-Print IrDA printer adapter supports wireless printing from a Handheld PC. It works with any parallel printer. It has a built-in automatic printer switch for either IR wireless or cable-based printing.

Price: ACTiR 100M $115 S/H: $8.50
ACTiSYS Corp.
Phone: 510-490-8024; Fax: 510-623-7268;
Email: irda-info@actisys.com
Web: www.actisys.com

JetEye® 9680

JetEye infrared interface allows users to transfer files from a Handheld PC to a desktop computer using infrared technology.

Price: $135 (discounts for volume purchases in seed unit program). S/H:$5.75.
Extended Systems
Phone: 208-322-7575; Fax: 208-327-1906
Email: info@extendsys.com
Web: www.extendsys.com

PC Card Drives

Card drives add one or more PC Card slots to your desktop PC. There are numerous sources now, and you may be able to contact the vendor from whom you bought your computer to purchase a compatible drive. Otherwise, when ordering a card drive, tell the vendor the type of computer you have to confirm that it will work in that computer. System software may have to be installed on your desktop so it can read the memory cards. Without the appropriate device drivers some cards may not work in your PC.

Here are some other purchasing considerations. Card drives are available as internal drives that require installation in a drive bay or external drives which plug into a port. The number and variety of card slots vary on different drives.

Envoy Data, Prima International, and others sell drives that will attach to the SCSI port on Macintosh and other computers.

Selected Contacts

CNF, Inc.; Phone: 800-826-3462 or 408-778-1160; Fax: 408-779-6558; Email: support@cnfinc.com; Website: www.cnfinc.com

Data Products & Services; Phone: 800-669-8194 or 970-

Mobile Solutions from Odyssey Computing
Pocket On-Schedule® and BizCalc™
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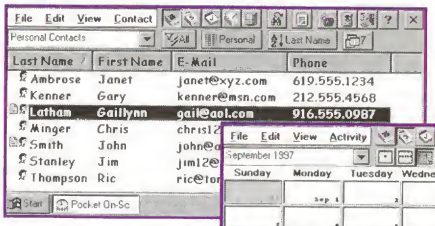
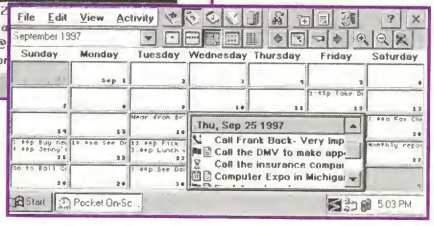
Pocket On-Schedule® – Sets a New Standard for Contact Managers!

Pocket On-Schedule v2 now features full Contact Management functionality for H/PCs. Robust features include unlimited phone books, daily/weekly/monthly/6-8 months calendar views, to-do lists and journal views, dialing/email/Internet support, contact history, advanced filters, global search, broadcast email/faxing, write/fax personalized letters, bi-directional linking and ad-hoc links, contact information templates, customizable layouts, and more. It also synchronizes multiple phone books, calendars, to-do lists, and contact history with ***On-Schedule***® for Windows® 95/NT. ***Pocket On-Schedule*** synchronizes with Schedule+, Outlook , as well as with other PIMs/Contact Managers.



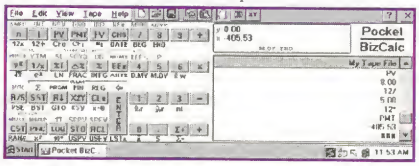
▲ *Customizable layouts let you efficiently organize data your way.*



◀ *The monthly calendar view lets you zoom in on any day, displaying calls/to-do's/ activities for that day.*

Pocket BizCalc™ – The Ultimate HP-12C Emulator!

Pocket BizCalc is a feature-rich programmable business/financial software that fully emulates the popular HP-12C calculator. Using RPN Logic, it performs the following calculations as well as others: Loan/Mortgage, Discounted Cash Flow, Bond, Compound Interest, Leasing, Actuarial and Markup Functions, Depreciation, Amortization Schedule. It incorporates a tape display that can be annotated, date/time stamped, and saved for later use. It is indispensable to business, retail, finance, banking, real estate, leasing industry professionals. Also available ***BizCalc*** for Windows 95/NT.



▲ *Supports simultaneous stylus and keyboard input for easy data entry.*

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Designed for Microsoft® Windows NT® Windows®95
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odyssey computing
16981 Via Tazon, Suite D, San Diego, CA 92127. Tel 619-675-3660. Fax 619-675-1130
E-mail: info@odysseyinc.com . Web site: www.odysseyinc.com

667-8260; Fax: 970-667-8245; Email: palmtop_info @dpscorp.com; Website: www. dpscorp.com

Envoy Data Corporation; Phone: 800-368-6971 or 602-892-0954; Fax: 602-892-0029; Email: info@envoydata.com; Website: www.envoydata.com/pccard.html

EduCALC: Phone: 800-535-9650,ext. 9172 or 714-582-2637; Website: www.educalc.com

Essex Portable Solutions, Inc.; Phone: 800-463-7739 or 408-229-8035; Fax: 408-229-9032; Email: richard@goessex.com; Website: www.goessex.com

Greystone Peripherals Inc.; Phone: 408-866-4739; Fax: 408-866-8328; Email: grystone@grystone.com; Website: www.grystone.com

MagicRAM; Phone: 800-272-6242 or 213-413-9999; Fax: 213-413-0828; Email: sales@magicram.com; Website: www.magicram.com

MaxTech Corporation, Inc.; Phone: 800-936-7629 or 310-921-1698; Fax: 310-802-9605; Website: www.maxcorp.com

Mobile Planet; Phone: 800-675-2638 or 818-888-9348; Fax: 818-888-3484; Website: www.mplanet.com
Palmtree Products Inc.; Phone: 617-871-7050; Fax: 617-871-6018

Pretec Electronics Corp.; Phone: 510-440-0535; Fax: 510-440-0534; Email: cardinfo@pretec.com; Website: www.pretec.com

Prima International; Phone: 800-724-3000 or 408-727-2600; Fax: 408-727-2435; Email: sales@prima-intl.com; Website: www.prima-intl.com

Steele Creek Technologies; Phone/ Fax: 704-588-1780; Email: paulramsden@cardlink.com; Website: www.cardlink.com

Synchrotech; Phone: 213-368-3760; Fax: 213-368-3765; Email: sales@ synchrotech.com
Website: www.synchrotech.com

EUROPE:
CSM GmbH, Mörikestrasse 58, 70794 Filderstadt, GERMANY; Phone: (+49) 711/77964-20; Fax: (+49) 711/77964-40; Email: csm@csm-gmbh.de; Website: www.csm-gmbh.de

PC Fax/Modem Cards

33.6 Communicator with SimpleJack

Simple Technology's 33.6 Communicator is a PC Card data/fax modem with the SimpleJack connector which eliminates the need for interface cables. Other features include digital line guard, error correction, 5-year warranty, and Cheyenne Bitware fax software.

Price: $199
Products from Simple Technology, Inc. are available from CDW, Ingram Micro, Insight, Microage, and PC's Complete or call 800-367-7330 or 714-476-1180 for locations
Fax: 714-476-1209
Web: www.simpletech.com

ActionTec DataLink Cards

ActionTec's DataLink 28.8 and 33.6 Fax/Modem Cards have been tested by the manufacturer in several H/PC models. These cards allow users to send and receive Email and faxes, use the Internet, and transmit data. Fax speed is 14.4.

Price: $105 for 28.8; $135 for 33.6
Available through Anmax
Phone: 213-269-3555; Website: www.anmax.com
Or contact ActionTec Electronics, Inc.
Phone: 714-851-8242; Fax: 714-851-8249
Email: mikeb@actiontec.com
Web: www.actiontec.com

Apex Data 33.6 Mobile Plus Modem Card V. 34

The Mobile Plus modem card moves data at 33.6 bps and faxes at 14.4 bps. It has a low power draw. It comes with a 5-year warranty.

Price: $159
For Individual sales contact Mobile Planet
Phone: 800-675-2638 / 818-888-9348; Fax: 818-888-3484
Web: www.mplanet.com
or Apex Data Products Division
Phone: 800-841-2739 / 510-623-1231; Fax: 510-249-1600.
Web: www.apexdata.com

The EXP DataTraveler 336E

The DataTraveler 336E is a 33.6K-bps Type II PC Card cellular modem with its own battery pack. Company officials say users can expect up to 2 hours of battery life from the modem, with no draw on the handheld's power supply.

Price: $199
EXP
Phone: 800-397-6922 / 714-453-1020; Fax: 714-453-1319
Web: www.expnet.com

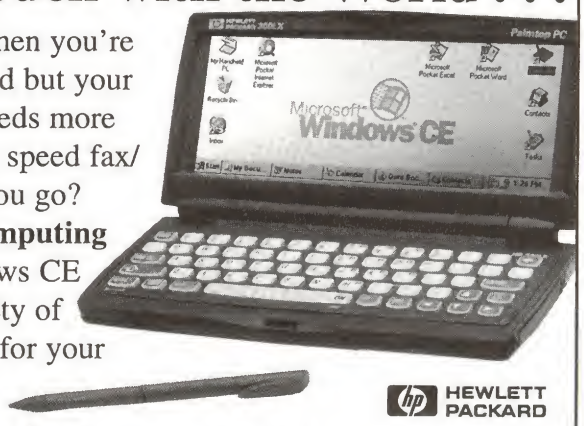
EXP ThinFax CE/M Card

EXP's ThinFax PCMCIA card includes both storage (4, 8, and 16 Mb of flash memory) and fax capabilities. Features include 33.6 kb/sec cellular fax/modem with detachable battery pack which provides up to two hours of mobile communications, so that the Handheld PC batteries will not be drained. A model is also available without the flash memory.

Keeping in Touch with the World . . .

has never been easier. When you're ready to explore the world but your Windows CE palmtop needs more memory or maybe a high speed fax/modem card, where do you go?

EduCALC Mobile Computing is your source for Windows CE support with a wide variety of products and accessories for your palmtop PC.



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Laguna Niguel, CA 92677

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EXP
Phone: 800-397-6922 / 714-453-1020; Fax: 714-453-1319
Web: www.expnet.com

Kingmax Fax/Modem Cards

Kingmax offers Fax/Modem cards for Handheld PCs as well as memory cards.

Price: Varies
Kingmax
Phone: 909-468-0958; Fax: 909-468-0769
Email: kingmax@kingmax.com
Web: www.kingmax.com

Montana 33.6 PC Card Modem/Fax

The Montana 33.6 PC Card Modem/Fax works in Handheld PCs as well as Motorola cellular phones. It is a wireless modem but also works with land lines. It features fast speed and low power consumption.

Price: $200
Motorola
Phone: 800-427-26252 / 800-566-3266 / 205-566-3266
Fax: 205-830-5657
Web: www.mot.com/pccards

MagicRAM® 33.6 Fax/Modem

This card provides high-speed modem connectivity for Handheld PCs. It features error correction, data compression, Group III fax compatibility, and lower power consumption. For sending faxes, bFAX software if included. The modem utilizes the Hayes AT command set as well as Bell and CCITT standards and protocols.

Price: $149
MagicRAM, Inc.
Phone: 800-272-6242 / 213-413-9999; Fax: 213-413-0828
Email: sales@magicram.com
Web: www.magicram.com

Pretec 33.6 Fax/Modem PC Card

Pretec offers a V.34+ Fax/Modem card supporting 33,600 bps data modem and 14,400 bps fax capability. With V.42/MNP2-4 error control and V.42bis/MNP5 data compression, users can access Email, on-line services, and Internet Web sites at up to 115,200 bps DTE data rate. The Fax/Modem card offers Group III send and receive fax capabilities. It has been tested by the manufacturer in a Handheld PC.

Price: $129
Pretec Electronics Corp.
Phone: 510-440-0535; Fax: 510-440-0534
Email: cardinfo@pretec.com
Web: www.pretec.com

CreditCard Modem 33.6

The Xircom CreditCard Modem 33.6 is a high-speed 33.6 PC Card modem that enables Handheld PC and notebook users to access information from any location. It features Digital Shield, cellular support, LEDs, a simple installation program, and a unique GlobalACCESS model for world travelers.

Price: $219
Xircom
Phone: 800-438-4526
Web: www.xircom.com.

PC Memory Cards

Centennial Technologies ATA Flash

Centennial Technologies makes Type II ATA Flash cards in 2 Mb to 96 Mb sizes. 1 year warranty is offered.

Prices vary with size
Centennial Technologies, Inc.
Phone: 800-942-0018 / 508-988-8848
Fax: 508-988-7651
Web: www.cent-tech.com

Eiger FilmCards CompactFlash and Adapter

Eiger offers their "FilmCards" for H/PC users who might need a CompactFlash sized card. Sizes range from 2 Mb to 30 Mb. The company also makes a passive Type II slot adapter for the smaller cards, as well as a desktop adapter for the drive bay of a desktop PC.

Price range for cards: $69 to $399
Various superstores, Multiple Zones, or CompUSA Direct.
Or contact Eiger Labs
Phone: 800-653-4437 / 510-739-0990; Fax: 510-739-0749
Web: www.eigerlabs.com

Envoy Data Memory Cards

Envoy offers ATA Flash cards which come in capacities from 2 Mb to 85 Mb.

Price: Contact Vendor
Envoy Data
Phone: 800-368-6971 / 602-892-0954; Fax: 602-892-0029
Email: info@envoydata.com
Web: www.envoydata.com

IBM Solid State File ATA Cards

The PC Card-ATA Solid State File by IBM feature low power consumption and durability. They are available in PCMCIA Type I in sizes 3,5,10, and 20 Mb. Type IIs run as large as 80 Mb.

Price: Contact Vendor
Retail orders: EduCALC
800-535-9650,ext. 9172 / 714-582-2637
Fax: 714-582-1445
Web: www.educalc.com

Kingmax Cards

Kingmax offers ATA flash and compact flash storage solutions, as well as Fax/Modem cards for Handheld PCs and digital cameras.

Price: Varies
Kingmax
Phone: 909-468-0958; Fax: 909-468-0769
Email: Kingmax@Kingmax.com
Web: www.kingmax.com

Mobile Peripherals ATA Flash

Mobile Peripherals offers ATA Flash cards from 4 Mb to 24 Mb for Handheld PCs.

Price: Varies
Mobile Peripherals Corp.
888-999-6732 / 818-913-7200; Fax: 818-913-7550
Email: sales@MPEC
Web: www.mpec.com

PalmMate Storage Card

This ATA card from ActionTec features high-speed read/write access and low power consumption. Sizes range from 4 Mb to 64 Mb. The cards may also be used in digital cameras.

Price: Market prices.
Available through Anmax
Phone: 213-269-3555; Website: www.anmax.com
Or contact ActionTec Electronics, Inc.
Phone: 714-851-8242; Fax: 714-851-8249
Email: mikeb@actiontec.com
Web: www.actiontec.com

PalmTree Memory Cards

PalmTree offers a full line of SRAM and ATA flash memory cards. Sizes range from 1 Mb to 65 Mb. Compression software optional.

Price: Contact vendor
PalmTree Products, Inc.
Phone: 617-871-7050; Fax: 617-871-6018

HP Memory Cards

Hewlett-Packard offers ATA Type II Flash cards as well as CompactFlash.

Price for standard ATA flash:
F1215C 6MB $425
F1013C 10MB $600
F1014C 20MB $999

Compact Flash
F1228A 2MB CF Card; w/o adapter $79
F1229A 2MB CF Card, w/ adapter $99
F1230A 4MB CF Card, w/o adapter $119
F1231A 4MB CF Card, w/ adapter $149

HP Dealers worldwide or selected 3rd party vendors.

MagicRAM® ATA Turbo Flash Memory Card

MagicRAM Turbo Flash Memory Cards are specifically designed for Handheld PCs,

PDAs, and digital cameras, and provide storage solutions for data and digital pictures. They feature rapid read/write plus super low power consumption. Compatible with DOS, Windows CE, 95, 3.x operating systems. MagicRAM Turbo Flash Cards have been tested and approved by Microsoft for use in Handheld PCs.

Price: Ranges from $99 for 4 Mb to $649 for 64 Mb.
CONTACT: MagicRAM, Inc., Phone: 800-272-6242 or 213-413-9999; Fax: 213-413-0828; Email: sales@magicram.com
Web: www.magicram.com

MGV DRAM Cards for Velo

MGV provides Miniature DRAM cards to expand functionality of the Philips Velo H/PC to support more applications while on the road. The addition of the DRAM card allows users to record up to 4.5 hours of dictation using the Velo's Voice Memo.

Price: (2 Mb) $119 (4 Mb) $179 (8 Mb) $349 (16 Mb) $599
MGV Memory
Phone: 800-440-4648; Fax: 714-453-1760
Email: sales@mgvgroup.com
Web: www.mgvgroup.com

PalmMate CompactFlash Card and CompactFlash Reader

ActionTec makes CompactFlash memory cards which work with several H/PCs as well as an external card reader which reads ATA Flash and CompactFlash cards. The cards come in sizes of 4, 8, 16, 24, and 32 Mb.

Price: Market prices.
Available through Anmax
Phone: 213-269-3555; Website: www.anmax.com
Or contact ActionTec Electronics, Inc.
Phone: 714-851-8242; Fax: 714-851-8249
Email: mikeb@actiontec.com
Web: www.actiontec.com

storeMate Cards

Microtech International's storeMate cards feature high speed, laser welded construction, and a 2 year warranty. They are fully compatible with all Handheld PCs running Windows CE and most other ATA compliant palmtops and digital cameras. Sizes range from 5 Mb to 80 Mb.

Price: $99 (5 Mb) $399 (40 Mb)
call for pricing on other capacities
Microtech International, Inc.
Phone: 800-570-9547 / 203-468-6223; Fax: 203-468-6466
Email: melillio@microtechint.com;
Web:www.microtechint.com/stormate.html

Sentinel Severe Environment Cards

The hermetically sealed ATA Flash memory cards from Raymond Engineering can withstand exposure to water immersion, moisture, rough handling, temperature and weather extremes, harsh industrial environments, and electromagnetic interference. Sizes for Type II cards range from 6 Mb to 85 Mb. Card drives are also available.

Price: Varies
Raymond Engineering
Phone: 860-632-4582; Fax: 860-632-4329
Email: jkrupa-ray1@kaman.com
Web: www.raymond-engrg.com

SanDisk™ Flash Cards SanDisk Type II Flash Cards

Features of SanDisk Flash cards include low power consumption and reliability (including at temperature extremes). They come in a wide range of capacities from 2 Mb to 20 Mb for CompactFlash and up to 150 Mb for Type II Flash cards. (CompactFlash cards may be used in the HP 320LX, new Cassiopeia, and probably other Handheld PCs in the future.)

Price: Call for prices.
For retail contact vendors such as Prima International
Phone: 800-724-3000 / 408-727-2600; Fax: 408-727-2435
Email: sales@prima-intl.com
Website: www.prima-intl.com

SanDisk Corp
Phone: 408-542-0500; Fax 408-542-0403
Email: info@sandisk.com
Web: www.sandisk.com

Simple Technology's ATA Flash Cards

Simple Technology's ATA Flash Cards provide storage solutions for new Handheld PCs, digital cameras, and cellular phones. Sizes range from 2 Mb to 40 Mb.

Price: $110 (2 Mb) $545 (40 Mb)
Products from Simple Technology, Inc. are available from CDW, Ingram Micro, Insight, Microage, and PC's Complete or call 800-367-7330 or 714-476-1180 for locations.
Fax: 714-476-1209
Web: www.simpletech.com

Pretec ATA Flash Storage Card

Pretec's Type II ATA Flash storage PC cards have been tested by manufacturer for use with Handheld PCs. Capacities ranging from 4 up to 64 Mb are available, with a 128 Mb expected soon. Also available are industrial grade memory cards for operating in extreme temperature ranges.

Price: varies
Pretec Electronics Corp.
Phone: 510-440-0535; Fax: 510-440-0534
Email: cardinfo@pretec.com
Web: www.pretec.com

Synchrotech ATA Flash Cards

Synchrotech Type II cards provide data storage from 2 Mb to 85 Mb. They are backed by Synchrotech's two-year limited warranty and one-year technical support. Power requirements are low.

Price: varies
Synchrotech

Visual CE™
Visual Development Environment for Windows CE
Build Windows CE forms
in minutes !!!
Free Windows CE sample software at http://www.syware.com
SYWARE®
P.O. Box 91 Kendall • Cambridge, MA 02142 • (617) 497-1300

Phone: 213-368-3760; Fax: 213-368-3765
Email: sales@synchrotech.com
Web: www.synchrotech.com

Viking's ATA Flash cards

Viking ATA Flash cards comply with PCMCIA ATA standards. Their capacities range from 2 Mb to 40 Mb and they may be used in handhelds, notebooks, cameras and other devices.

Price: $100 (2 Mb) $390 (20 Mb)
Viking Components
Phone: 800-338-2361 / 714-643-7255
Fax: 714-643-7250
Web: www.vikingcomponents.com

Peripherals

ADPI's PC Card ADD-A-Floppy

ADPI links a card that fits in the PCMCIA Card slot of an Handheld PC with a portable, external disk drive. The external drive is suitable for either the standard 1.44 Mb floppies or 120 Mb floppies. Drivers for Windows CE, Windows 3.1, DOS, and Windows NT are included.

Price: (1.44 Mb) $189 (120 Mb) $289
ADPI (Analog & Digital Peripherals, Inc.)
Phone: 800-758-1041 / 937-339-2241; Fax: 937-339-0070
Email: adpi@adpi.com
Web: www.adpi.comzzz

Quick Connect Drives with Built-In RS232 commands

ADPI makes a family of RS232 Peripherals that connect to the RS232 ports of Handheld PCs. RS232 commands are embedded in the devices. These include floppy disk drives, CD-ROM drives, removable hard drives, zip drives, and 120 Mb drives. The company also makes an ALL ON ONE stand alone portable computer which runs Windows CE as well as DOS. It includes extras to support customized use for mobile field applications.

Price: Varies
ADPI (Analog & Digital Peripherals, Inc.)
Phone: 800-758-1041 /937-339-2241
Fax: 937-339-0070; Email: adpi@adpi.com
Web: www.adpi.comzzz

Power

15 Minute SuperCharger

Boost H/PC batteries in 15 minutes with this compact microprocessor-based battery charger/AC Adapter.

Price: $79
JJA Microsystems
Phone: 800-765-7770 / 516-328-2254
Fax: 516-328-1198; Email: john@jjustin.com
Web: www.jjustin.com

GC/Lind Power Adapter

This 12-volt power adapter provides power for HP300 or 320LX Handheld PCs. Use in car cigarette lighter, boats, planes, etc. This 3:Amp unit will charge your batteries and can be used at the same time. Solid black aluminum casing with additional fuse and power on lamp.

Price: $49.95
Your One-Stop Palmtop Shop
Phone: 800-709-9494 / 608-752-1537
Fax: 608-752-9548; Email: gc@midplains.net
Web: www.mrpalmtop.com

Rechargeable Batteries

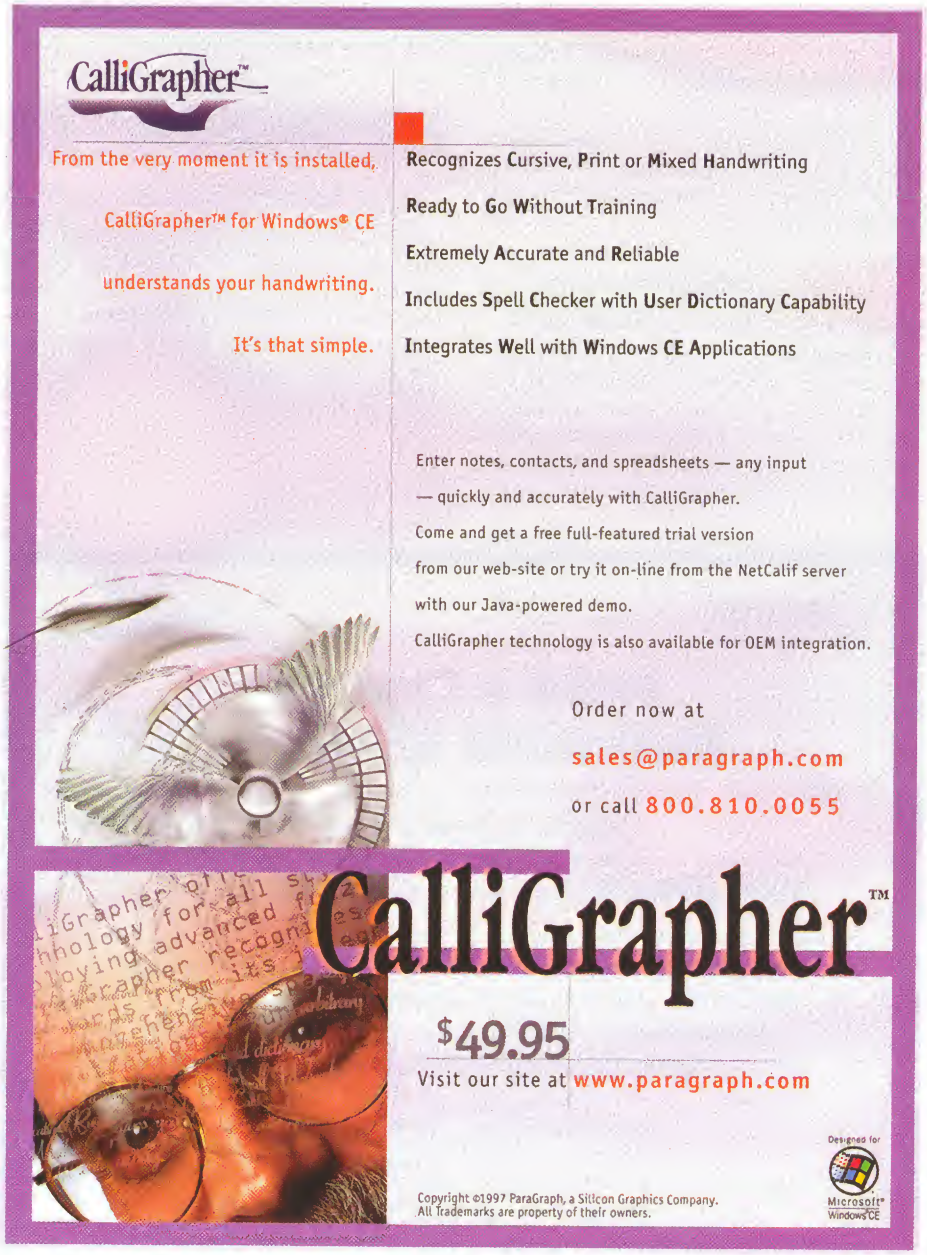
1-800-Batteries sells rechargeable batteries and tools for mobile professionals, including NiMH, NiCad, LiOn batteries, AC adapters/chargers, car adapters.

Price: varies
1-800-Batteries; Phone: 800-228-8374
Fax: 702-746-6155; Email: orders@1800batteries.com
Web: www.800batteries.com

Serial/Parallel Adapters

Link-A-Printer

This cable connects H/PCs to printers, for use with programs like bPRINT. Part #GA935.



Price: $59; S/H: $6.00 or more.
Greenwich Instruments USA
Phone: 800-476-4070 / 704-875-8490
Fax: 704-875-2801.

Pygmy H/PC Serial to Parallel Converter Cable

The Total Printing Solution package from Pygmy offers a parallel converter cable with high-speed built-in buffer to allow reliable communications, plus the software needed for printing.

Price: $49.95 (hardware only)- (software $29.99)
Pygmy
Phone: 888-807-4472 / 305-253-1212
Fax: 305-255-1876; Email: sales@pygmy.com
Web: www.pygmy.com

Shier System's Printer Cable

This cable connects HP 300 or 320LX Handheld PCs to printers.

Price: call vendor
Shier Systems & Software, Inc.
Phone: 805-371-9391; Fax: 805-371-9454
Email: info@shier.com
Web: www.shier.com

Socket Communications Serial Adapter PCMCIA Card

An ultralow power RS-232 communications adapter compatible with the Windows CE registry. Users can connect external modems, printers, GPS devices, bar code readers and other communication devices to their Handheld PCs.

Price: $169
Mobile Planet for individual sales
Phone: 800-675-2638; 818-888-9348
Fax: 818-888-3484
For vertical markets contact Socket Communications, Inc.
Phone: 510-744-2700; Fax: 510-744-2727
Email: info@socketcom.com
Web: www.socketcom.com

SSP-100 Serial Adapter

Add a serial port to a Handheld PC with the SSP-100 PC Card from Quatech, Inc.. The card fits into the PC card drive. The attached cable and serial port allow RS232 serial devices to be attached.

Price: $169 plus shipping
Quatech, Inc.
Phone: 800-553-1170 / 330-434-3154
Fax: 330-434-1409
Email: sales@quatech.com
Web: www.quatech.com

VGA Adapter

EZ2 TV Encoder

This PC Card adapter lets you connect your Windows CE H/PC with a VGA or NTSC monitor and display the Windows CE screen image on your TV or VGA monitor. It also comes with PowerPoint Viewer software that enables you to display Windows 95 PowerPoint slides to a monitor from the Handheld PC. Necessary software drivers can be downloaded free of charge from www.ezshow.com.

EZ2VGA Adapter -- $350 Canadian (approx. $249 U.S.).
EZ2TV Adapter -- $420 Canadian (approx. $299 U.S.)
EZShow Systems In,
Phone: 604-299-2033; Fax: 604-299-5118
Email: mike@ezshow.com
Web: www.ezshow.com

Wireless

Services

There are several major wireless networks in the USA and a number of commercial services which make use of the networks. Handheld PCs may be used with the ARDIS network using a Motorola Personal Messenger Card (PM100) and with RAM Mobile Data network using the Megahertz AllPoints Wireless PC Card. There is also a software and cable system available for using the Skytel two-way pager and Skytel network. In addition, H/PC users in the San Francisco area, Seattle, and Washington, DC. can use the Ricochet network. Two wireless messaging systems work with phone company networks.

Most of these systems enable users to send and receive Email, browse the Internet, send and receive faxes, etc, from their H/PC whenever they are in the range of the appropriate antenna.

Ardis Network

ARDIS Wireless Services

ARDIS provides two-way wireless data communications capabilities in over 10,700 cities in the United States. Handheld PC users can wirelessly send and receive messages from other devices, LANs and over the Internet by using the built-in Windows CE Email interface and a Motorola PM 100D wireless modem. In addition, specialized news services for stock quotes, late-breaking news stories and individualized customer content is available.

Price: Varies. Modem card comes with enrollment.
ARDIS
Phone: 800-494-1732 / 847-913-4685; Fax: 847-913-4340
Web: www.ardis.com

ConectUS Wireless Service

ConectUS Wireless Communications offers wireless Email, fax, paging, and internet service within the United States using ARDIS network and Motorola Personal Messenger card. ARDIS covers 11,000 cities. ConectUS works with Windows CE.

Newton Systems Integrator

Microsoft Windows CE

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TEL: (802) 865-2728 • FAX: (802) 865-2468 • HTTP://WWW.GMSW.COM • INFO@GMSW.COM

Price: Varies
ConectUS Wireless Communications
Phone: 800-350-0373 / 805-497-0373; Fax: 805-494-3799
Email: orders@conectus.com
Web: www.conectus.com

MobileCHOICE Messenger

MobileCHOICE Messenger for Microsoft Windows CE is a mobile, wireless, and dial-up application suite that runs on the ARDIS network providing IKON Mobility Services, such as wireless faxing, two-way paging, operator services, and the ability to send and receive Internet email. Recent product enhancements allow users to:

- Send longer messages. The current message length restriction of 2K has been expanded to 32K.
- Forward email to FAX and other email addresses.
- Automatically have replies to an email message routed to a specified recipient.
- Configure a FAX cover page.
- Filter messages to the device based on size.

Price: varies depending on service agreement.
IKON Office Solutions
Phone: 800-916-2075 / 520-577-2661; Fax: 520-529-9517
Email: CEInfo@Integra.net
Web: www.ikon.net

RAM Mobile Data Network

RAM Mobile Data network provides wireless services throughout the USA.

Price: Varies
Contact companies offering service over the RAM Mobile Data network, or RAM Mobile Data
Phone: 800-726-3210, ext. 478; Fax: 800-763-1110
Email: RAM.Info@ram.com
Web: www.ram.com

DTS Wireless ZAP-IT™

DTS Wireless provides ZAP-IT wireless services for Handheld PCs utilizing the Windows CE Inbox. With ZAP-IT, users can send and receive email, faxes and phone messages, as well as download text from the Internet, wirelessly, in over 10,000 cities in the USA over the RAM Mobile Data network. After subscribing to ZAP-IT the software may be downloaded at any time from the company website.

Price: five price plans based on usage, starting at $9.95/month
DTS Wireless
Phone: 888-243-8387; Email: info@dts.net
Web: www.dtswireless.com

Infowave CE

Infowave CE is the wireless client, enabling

MICROSOFT H/PC EXPLORER 1.1

Free Update

The new release of H/PC Explorer software for your desktop PC is now available. The new version, H/PC Explorer 1.1, adds support for Outlook 97, Word 97, Excel 97 and Windows NT Workstation 4.0.

Here are a few details: In terms of synchronization, H/PC Explorer 1.1 works the same way as version 1. Now the setup program allows you to choose if you'd like to synchronize with Outlook, Schedule+, or a combination of the two.

File conversion from desktop Word and Excel to Pocket Word and Pocket Excel also works the same as before.

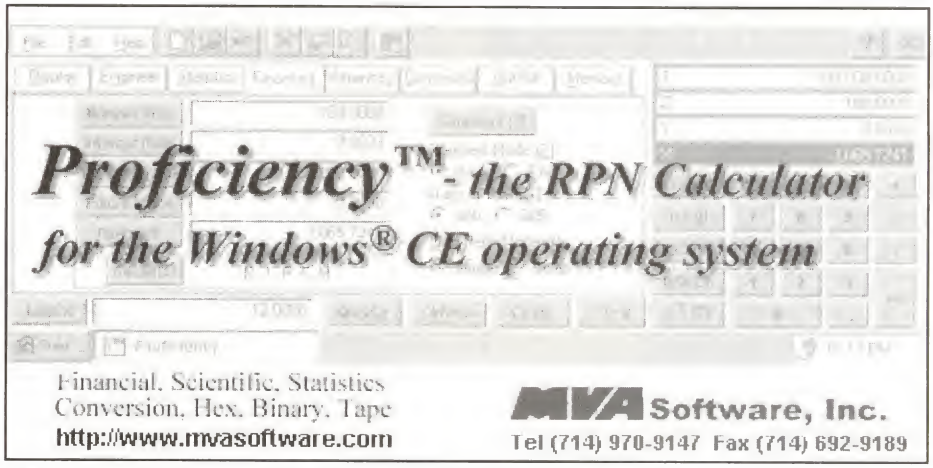
H/PC Explorer 1.1 now enables you to dock H/PCs with PCs running either Windows NT Workstation 4.0 or Windows 95.

The terms of the End User License Agreement for H/PC Explorer 1.1 have been changed to allow customers to install H/PC Explorer 1.1 on any PC with which they wish to dock their H/PC. While Handheld PCs can only establish a partnership relationship with a single PC at a time, Handheld PCs can dock as guests of another PC to exchange files.

If you already own an H/PC, go directly to the download page to download H/PC Explorer 1.1. Select a download site, and click on the link to begin the download and installation process. If prompted, select Open to begin the setup process on your PC. As an alternative, you can choose to save the file and then, once fully downloaded, click on it to initiate the setup process.

Get your copy of H/PC Explorer 1.1 On-line:

Web: www.microsoft.com/windowsce/hpc/software/hpcexplorer.htm



Windows CE Software Available Now

InScribe™
Revolutionary new text entry method **designed for handhelds!!** Fast, easy, accurate! Now with **international** characters and symbols!!

PhoneTone™
HPC auto-dialer! TouchTone™ sounds **free you from dialing** *and* let you **get your messages** from overseas or rotary phones!

GameBag One™
Eight great **portable games.** There's something for everyone in this new package!

And More
More utilities available by **the time you read this!** Call or check our website we may have **just what you're looking for!!**

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the CE Pocket Mail client to wirelessly communicate with any corporate exchange server. The Infowave CE client functions as a service provider for the CE Pocket Mail Inbox.

Infowave wireless messaging for CE and Outlook clients allows users to access a single mailbox whether logged in via the LAN, dialed in via phone connection, or wirelessly.

Price: varies
Infowave Wireless Messaging, Inc.
Phone: 800-463-6928 / 604-473-3640; Fax: 604-473-3699
Email: info@infowave.net
Web: www.infowave.net

LocusOne Wireless Messaging and Voice Integration Services

The LocusOne service links email, phone, fax, and pager to an H/PC, creating a unified messaging system. For example, LocusOne can screen voice and fax calls, route them, and notify the user when a voice, email or fax message was left and by whom. A modem is required. Software is provided.LocusOne works over the RAM Mobile Data network, which covers 92% of metropolitan areas in the USA.

Price: varies
LocusOne Communications
Phone: 800-675-6287; Fax: 904-998-9032
Email: @locusone.net
Web: www.locusone.net

WyndMail

Using the built-in email application of Windows CE, WyndMail offers wireless Internet email, faxing, paging, text-to-voice and voice-to-text messaging and other services. WyndMail supports various wireless modems and provides nationwide coverage in the USA. Service can include rental of a wireless modem and is available for low monthly rates; no long-term contract is required.

Price: $ varies for service. Software is free.
S/H: $10; Bytes occupied on H/PC: 140 Kb
Wynd Communications
Phone: 800-549-9800; Fax: 805-781-6001
Email: info@wynd.com
Web: www.wynd.com

Ricochet Network

Ricochet SX Modem and Wireless System

Ricochet is a packet radio network serving the greater San Francisco Bay area, Seattle, Washington, D.C. and several university and corporate campuses in the USA. Their new Ricochet SX wireless modem is a thin external modem which can be velcroed to bottom of an H/PC. It comes with an AC adapter that charges the modem battery while in use. When recharged, 6 hours of battery life is typical.

This wireless modem and Internet service provides an unlimited-usage Internet account, a POP email account, Netscape Navigator software, newsgroups and FTP access.

Price: $379 for Ricochet SX Wireless Modem
Price: $29.95/mo. for wireless service
Metricom
Phone: 408-399-8200 / 408-354-5038
Web: www.ricochet.net

SkyTel Network

SkyTel Messenger™

SkyTel Messenger for Windows CE gives users the ability to link their SkyTel 2-Way℠ pager to their H/PC to exchange messages with other SkyTel pagers and any Internet email address. SkyTel Messenger software integrates into the H/PC Inbox communications application, and gives users direct access to pager and email addresses stored in the H/PC Contacts, allowing for fast creation and sending of wireless messages.

Price: $29.95
Bytes occupied on H/PC: 80 Kb
SkyTel
Phone: 800-395-5785
Web: www.skytel.com

GTE Paging Network

PageCard and PageSoft Wireless Messaging System®

PageCard is an alphanumeric pager with PC Card interface that turns the Handheld PC into a wireless data receiver. Combined with GTE's paging network service, users can receive wireless email, stock quotes, sales leads, calendar updates and other time-critical data. Comes with PageSoft for Windows CE to download messages into your Mail Inbox. The PageCard operates for a full month on its own battery so the Handheld PC's battery life is maximized.

Price: $29.95 a month includes: A Socket PageCard PC Card data pager; PageSoft for Windows CE software; PageSoft Pro for Windows software for Windows® so people in your office can send you messages; a personal Internet address; toll free 800 number; local coverage including 400 messages/month; option to upgrade to statewide, regional or national coverage; option to upgrade to GTE's Advanced Paging Services

Price for card only: $399
Mobile Planet for individual sales
Phone: 800-675-2638 / 818-888-9348; Fax: 818-888-3484

For vertical markets contact Socket Communications, Inc.
Phone: 800-483-5838 / 510-744-2700; Fax: 510-744-2727
Email: info@socketcom.com
Web: www.socketcom.com

Paradigm4 ADCO Network

Paradigm4

Paradigm4 provides a wireless network service in the USA at a flat rate, over ADCO (advanced data collection outsourcing) network. The connectivity pack, GlobeRunner H/PC, with radio modem provides wireless Internet/intranet access. Features of Pardigm4 are Internet access via wireless ISP, AT & T wireless service activation, unlimited usage for 6 months, 24-hour technical assistance via phone, and nationwide wireless service access (USA).

Price Range: $79/month to $199/month
Paradigm4
Phone: 888-232-6111; Fax: 201-808-9581
Email: hpcinfo@paradigm4.com
Web: wwwparadigm4.com

Wireless PC Cards

Personal Messenger Wireless Modem Card Use with ARDIS Network

A self-powered Type II PC Card, the Personal Messenger or "PM100D" Wireless Modem Card lets you send and receive messages, exchange email, connect to your office network, and access on-line services without having to connect to a phone jack.

Price: Varies. A Celebrity financing plan is available that distributes the cost in monthly payments.
Various vendors, including:
EduCALC, 800-713-6526
Shier Systems, 805-371-9391
New and used cards are available from:
A One Stop Palmtop Shop
Phone: 800-709-9494 / 608-752-1537; Fax: 608-752-9548
Email: gc@midplains.net
Web: www.mrpalmtop.com

Megahertz AllPoints WirelessPC Card

Megahertz AllPoints Wireless PC Card delivers real-time, two-way access to critical business information with wireless email, faxing, database access, and messaging over the RAM network. This PCMCIA Type II card features rechargeable NiCad battery, removable antenna, and auto install.

Price: $499
This card is available through various sources including stores like Office Max, Office Depot, Computer City, CompUSA, and PC Warehouse, as well as through wireless solution providers.

3Com, Mobile Communications Division
Phone: 800-527-8677 / 801-320-7000; Fax: 801-320-6022
Email: salesinfo@40mhz.com
Web: www.3com.com

Software

Communications

bMOBILE™

bMOBILE works with a Motorola PM 100C cellular digital packet data (CDPD) modem and an account with a CDPD provider (both of which must be purchased separately) to give access to email and a user's existing Internet Service Provider, as well as the World Wide Web.

Price: $29.95 S/H: $6
Bytes occupied on H/PC: 90-110 Kb.
bsquare development
Phone: 888-820-4500 / 206-519-5941
Fax: 206-519-5999; Email: bFAX@bsquare.com
Web: www.bsquare.com/development

bFAX Pro™

bFAX Pro enables the Handheld PC to send faxes with a standard PC Card fax/modem, (class 2 or 2.0). The program can send and receive text, bitmap, tiff, Pocket Word, and Casio Digital Camera files. Express supports attachments to faxes. bFAX Professional lets you receive faxes and provides Pocket Word support.

Price: $69.95 S/H: $6
Bytes occupied on H/PC: Approximately 700 Kb
bsquare development
Phone: 888-820-4500 / 206-519-5941
Fax: 206-519-5999; Email: bFAX@bsquare.com
Web: www.bsquare.com/development

bFAX Lite

For a free demonstration version of bFAX Pro download bFAX Lite from the bsquare.com Website (see above).

Mail on the Run!®

Mail on the Run! provides direct and remote access into Corporate Mail Systems for Handheld PCs running Microsoft Windows CE. With Mail on the Run!, a user can send, receive, reply, forward and store messages from a remote location. Mail on the Run! provides access to Lotus Notes Mail, Microsoft Exchange Server, Lotus cc:Mail, and Microsoft Mail systems over telephone, cellular and wireless packet data networks, such as ARDIS and CDPD. Version 3.0 also provides support for sending and receiving attachments with file conversions, downloading Address Book entries from the Corporate Mailing System, and selectively downloading mail; for example, mail from a specific user or mail sent after a particular date.

Price: $89(Multi user license also available)
S/H: $10 Priority Mail, $16 overnight,
Bytes occupied on H/PC: 90 Kb.
River Run Software Group
Phone: 203-861-0090; Fax: 203-861-0096;
Email: info@riverrun.com
Web: www.riverrun.com

Mail on the Run!® Internet Special

Mail on the Run! Internet Special facilitates wireless access to Internet mail and the World Wide Web, using existing Internet accounts.

Price: Call Vendor
Bytes occupied on H/PC: 100 Kb.
River Run Software Group
Phone: 203-861-0090; Fax: 203-861-0096
Email: info@riverrun.com
Web: www.riverrun.com

mobileNews™ and mobileIRC™ Internet Connections

mobileNews allows users to keep up with USENET news while mobile. It supports the NNTP standard, multiple news servers, integrated email and address books, and server authorization.

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- ❍ Bill time spent on tasks
- ❍ Send task data to a database

"This product is to a 'to do' list as a spreadsheet is to a calculator."
"Finally, billing and reporting my time is easy."
"This is one Windows CE application I actually use!"

*** Special Offer! ***
For a limited time, we will include with your order your choice of either **DialTalk** (dials phone numbers using the speaker on your HPC) or **Signature** (manages signature lines for email).

$99.00

Order (toll free): **1-888-VANCE-PC**
Outside the US: **(626) 445-8932**
Email us at: **info@vancesoft.com**
Web site: **http://www.vancesoft.com**

Includes WindowsCE and Windows95/NT versions

another adVanced application from Vancesoft

mobileIRC™, extends the power of Internet Relay Chat (IRC) to users of Windows CE.

Price: $24.50 each / $39 for both
S/H:$6
bsquare development
Phone: 888-820-4500 / 206-519-5941
Fax: 206-519-5999; Email: bFAX@bsquare.com
Web: www.bsquare.com/development

Scotty FTP

Scotty FTP, a graphical FTP client for Windows CE, allows you to connect to any FTP server and upload or download files. One version is for SH-3 processors, a second version for MIPS processors.

Price: $29.95 US
Ruksun Software Technologies, Available from MobileSoft
Web: www.mobilesoft.com

Virtual Courier™

MicroBurst's Virtual Courier serves as a gateway between Handheld PCs and MS-Mail, Exchange, and cc:Mail LAN based email systems. It requires no additional program memory on the Handheld PC. It operates on Windows 95 and NT 3.5 or above desktop systems. Users can gateway to LAN email through direct dial modem, or through Internet connections.

Price: Single user- $69, Multi-user version (25 users) $125.
LandWare
Phone: 800-526-3977 / 201-261-7944
Fax: 201-261-7949; Email: MarkF@MBurst.com
Web: www.VirtualCourier .com

WISPrMAIL and WISPrBrowse

Use these products to send and receive Internet Email from a Handheld PC. WISPrMAIL allows you to preview your email headers and only download the ones that are important to you. The WISPrBrowse feature allows H/PC users to surf the Web with standard Internet browsing software, including a full view of HTML Web pages.

Price: varies
Datamatic, Inc.
Phone: 972-234-5000; Fax: 972-234-1134;
Email: ken_kercher@datamatic.com
Web: www.datamatic.com

Calculators/Finance

CoolCalc

Applian Technologies offers CoolCalc, a sophisticated programmable business and scientific calculator, with the power for users to create their own calculators and formula screens.

Price: Beta version free from company website. Check with company for latest availability and price of final version.
Bytes occupied on H/PC: 40 Kb
Applian Technologies
Phone: 415- 831-1499 Fax: 415-668-6668
Web: www.applian.com

Financial Consultant

This is a financial calculator that supports time and money calculations, investment analysis, depreciation, retail-style percentages and other calculations. It has been designed for business professionals who need to use their H/PC to make rapid financial decisions.

Price: $39.95; Special bundle $49.95 includes "Fiscal Pro"
S/H: $4.50 first class mail
Bytes occupied on H/PC: 80 Kb
LandWare, Inc.
Phone: 800-526-3977 / 201-261-7944
Fax: 201-261-7949; Email: sales@landware.com
Web: www.landware.com

FiscalPro Financial ProblemSolver

Fiscal Pro is a forms-based financial problem solver. It includes amoritization, currency and unit conversions, data calculations, retail percentages, and investment analysis.

Price: $39.95; Special bundle $49.95 includes "Financial Consultant" S/H: $4.50 first class mail
Bytes occupied on H/PC: 79 Kb
LandWare, Inc.
Phone: 800-526-3977 / 201-261-7944
Fax: 201-261-7949; Email: sales@landware.com
Web: www.landware.com

LifePlan Investor Edition

Finance LifePlan Investor Edition contains 25 customizable Pocket Excel templates to help investors make decisions about stocks, bonds, treasury bills, mutual funds, a portfolio of securities, real estate, and measuring investment returns. There are also 11 explanations of investment ratings.

Price: $29.95
ALTO Financial Software
Web: www.mobilesoft.com

LifePlan Personal Edition

A product that makes the financial and everyday calculations of your life easy. It contains 46 ready-made, customizable Pocket Excel templates for mortgage calculations, college financing, retirement, tax, credit card payment options, insurance, wedding budgeting, divorce, jobs, cars, financial performance, and statistical measurements. There are also 4 schedules for medical matters, insurance, essential numbers, and important records.

Price: $19.95
ALTO Financial Software
Web: www.mobilesoft.com

LifePlan Professional Edition

For Accountants and Attorneys: It contains 18 customizable Excel templates for accountants, investment analysts, financial advisors, and lawyers concerning financial ratios for a company, annuity trusts and unitrusts, and valuation of investments. This is invaluable for the investment advisor.

Prrice: $39.95
ALTO Financial Software
Web: www.mobilesoft.com

Pocket BizCalc

Pocket BizCalc for Windows CE is a full-featured business/financial software calculator that emulates the HP-12C. Using RPN logic, it performs the following calculations as well as others: loan/mortgage, discounted cash flow, bond, compound interest, leasing, actuarial and markup functions, depreciation, and amoritization schedule. It incorporates a tape display that can be annotated, date/time stamped, and saved for later use.

Price: $39.95 30 day free trial available for download from the company website. Bytes occupied on H/PC: 220 Kb.
Odyssey Computing, Inc.
Phone: 800-965-7224 / 619-675-3660; Fax: 619-675-1130
Email: info@odysseyinc.com
Web: www.odysseyinc.com

Pocket Finance

Pocket Finance from LandWare is a "checkbook" application, to be used for tracking deposits and payments as well as exchange account entries with Intuit's Quicken and Microsoft's Money desktop applications.

Price: $39.95
LandWare, Inc.
Phone: 800-526-3977 / 201-261-7944; Fax: 201-261-7949
Email: sales@landware.com
Web: www.landware.com

Pocket Convert

Pocket Convert for Windows CE converts between currencies, language phrases, abbreviations, or user-defined information and other data.

Price: £15 ($24)
Bytes occupied on H/PC: 537Kb
Surerange Analysis Ltd
Fax: 44 (0) 1483 304960; Email: info@surerange.com
Download from company Website listed below.
Or from MobileSoft at www.mobilesoft.com
Web: www.surerange.com/wince

Pocket Solver

With Pocket Solver users type in an equation and enter values for all but one of the variables. Unlike a spreadsheet, any unknown variable can be found without having to rearrange the equation.

Price: £20 ($32)
Bytes occupied on H/PC: 521Kb
Surerange Analysis Ltd
Download from Website
Web: www.surerange.com/wince

proCALC ce

proCALC ce equips the H/PC with a problem solving environment. Designed for technical professionals who need RPN or algebraic input logic, proCALC ce enables users to perform such calculations as hyperbolics, trigonometrics, one or two variable statistics, linear regression, rectangular/polar, radian/degrees and base conversions.

Price: $44.95 S/H: $4.50 first class mail
Bytes occupied on H/PC: 105 Kb
LandWare, Inc.
Phone: 800-526-3977 / 201-261-7944; Fax: 201-261-7949
Email: sales@landware.com
Web: www.landware.com

Proficiency

Proficienc! is a RPN calculator with business, financial, statistical, scientific, engineering and programming functionality. It provides functional emulation of Hewlett-Packard Company's HP-12C financial calculator, most of the HP-15C engineering/scientific calculator, and portions of the HP-16C programmers' calculator. It comes with a library of preprogrammed functions and input optimized for Handheld PCs' keyboard and stylus.

Price: $49
Bytes occupied on H/PC: approximately 370 Kb
MVA Software, Inc.
Phone: 714-970-9147; Fax: 714-692-9189
Email: info@mvasoftware.com
Web: www.mvasoftware.com

Quote Ticker Bar 1.0

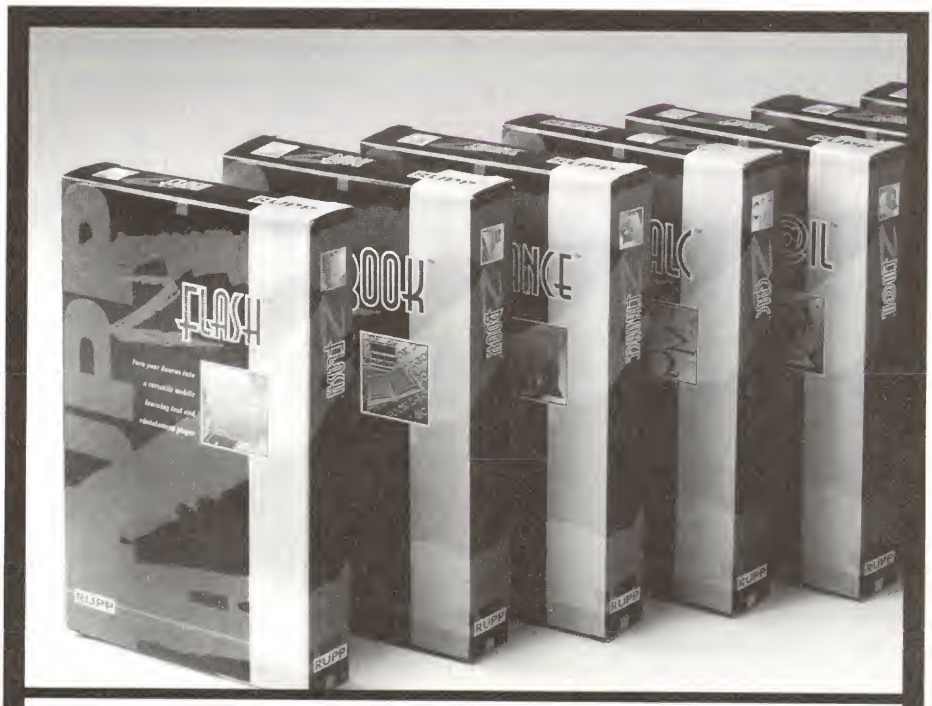
Retrieves stock information without having to run a browser, via the Internet. The program can be downloaded from Starfire's Website and can be used 10 times before registration is required.

Price: $20 (includes license for QTB for Windows 95 and Windows NT). Bytes occupied on H/PC: under 100 Kb.
Starfire Software, Inc.
Phone: 888-282-5887 / 801-523-8221
Email: sales@starfire-inc.com
Web: www.starfire-inc.com

TimeReporter™

A version of this tool has been used by professionals since 1994, and it is now available for Handheld PCs. It supports billing by the hour or fixed fee.

Available soon.
Price: $119.95 S/H: $3
Bytes occupied on H/PC: 300 Kb



RUPPSoft has been selling mobile computing software since 1985. But now, get one of our best selling programs, Z-Flash, absolutely free. That's a $50 value! Just order our RUPPSoft Software-To-Go Catalog of Windows CE products and the software is yours.

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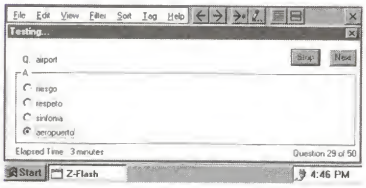
Remember when 3X5 cards were used to carry information? Not any more. Z-Flash easily stores and presents any kind of data or graphic in the familiar index card format. For education, Z-Flash helps you learn in a flash with Drill, True/False Test and Multiple Choice Test modes. It even tracks results to measure your learning progress. There's no limit to the uses for Z-Flash.

For your FREE Z-Flash* and catalog, call toll-free: 1-888-517-7877. Or email us at the internet address below.



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Distributed by Rupp Technology Corp. 1-800-844-7775
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iambic software
Phone: 800-730-5370 / 408-882-0399
Fax: 408-882-0399
Email: info@iambic.com
Web: www.iambic.com

Contact Managers

ACT! for Windows CE

ACT! for Windows CE based on the desktop version of ACT! contact management and productivity software. The Windows CE version exchanges data seamlessly with an ACT! database for the desktop. It incorporates the main features of the desktop version and has a similar user interface. It includes contact database, scheduler, comprehensive log, and other features.

Price: $99.95
Symantec
Phone: 800-441-7234 / 541-334-6054
Fax: 800-554-4403
Web: www.symantec.com

Pocket On-Schedule®

Pocket On-Schedule v. 2 for Windows CE is a contact manager for mobile professionals, featuring unlimited phone books, daily/weekly/monthly/6 - 8 months calendar views, to-do list and journal views, dialing/email/Internet support, contact history, advanced filters, global search, contact information templates, and customizable layouts. Automatically logs calls/email/ faxes, to-do's/callbacks and synchronizes multiple phone books, appointments, tasks, and contact history with On-Schedule 97. Synchronizes with other PIMs/Contact Managers as well.

Price:
Pocket On-Schedule v. 2 $89.95
Pocket On-Schedule v. 1 $69.95 (manages phone books only)
Bytes occupied on H/PC: 400 Kb.
30-day free trial available from company website.
Odyssey Computing, Inc.
Phone: 800-965-7224 / 619-675-3660
Fax: 619-675-1130; Email: info@odysseyinc.com
Web: www.odysseyinc.com

Database

accompli Task Manager

accompli tracks tasks in "to do" list format. It features archive and reporting functions, time billing, and database record keeping, compatible with Microsoft Access.

Price: $99
Vancesoft
Phone: 888-826-2372 / 626-445-8932
Email: info@vancesoft.com
Web: www.vancesoft.com

AllPen Mobile Forms Database

This flat-file database uses the standard database format for Windows CE. Users can define the database on the Handheld PC. The program supports import and export in ASCII tab or comma delimited files, as well as search, sort, and default values. Field types include text, note, number, pop-up menus, radio buttons, and check boxes.

Price: $79.95 S/H: $4.50 first class mail
Bytes occupied on H/PC: 132 Kb
LandWare, Inc.
Phone: 800-526-3977 / 201-261-7944
Fax: 201-261-7949; Email: sales@landware.com
Web: www.landware.com

Z-Flash CE Educational Database

Z-flash turns a Handheld PC into an edutainment tool for teaching vocabulary including Spanish language, medical terminology, or sports trivia. Users can custom-design their own flash cards for learning or to be used as teleprompter for presentations. The database can also be used for data gathering.

Price: $59.95 S/H: $15 FedEx
Bytes occupied on H/PC: Approximately 400 Kb
RuppSoft
Phone: 888-517-7877 / 602-941-4789
Email: catalog@ruppsoft.com
Web: www.ruppsoft.com

FormLogic 3.0

FormLogic 3.0 automates business processes such as retail merchandising, order entry, patient data collection, market research surveys, and field inspections. The program features intelligent distribution of applications and data to and from the field and supports data exchange between handhelds and enterprise data systems such as Access and ODBC databases.

Price: Varies with size of implementation.
Bytes occupied on H/PC:150- 200 Kb
Wright Strategies, Inc.
Phone: 619-702-0500; Fax: 619-702-0501
Email: info@wrightstrat.com
Web: www.wrightstrat.com

Visual CE™

Visual CE provides a visual development environment for the Windows CE operating system. Visual CE allows users to create databases and forms-based applications. The applications can be used to collect, display and modify data on an H/PC. Programmers and others can use Visual CE to create applications on their Windows 95 or NT desktop machine, then download them to their handhelds.

Price: $129 S/H: $10
Bytes occupied on H/PC: 55 Kb
Frank Yacano, Syware, Inc.
Phone: 617-497-1300; Fax: 617-497-8729
Email: frank@syware.com
Web: www.syware.com

Games

AcrossWords

AcrossWords from Doublegraph Inc.is a crossword program written from the ground up for Handheld PCs.

Price: $29.99
Download from MobileSoft website
Web: www.MobileSoft.com

Backgammon /Chinese Chess

Purple Software's version of the classic Backgammon board game allows players to save and load games. Users can play against other humans or the computer, or watch the computer play against itself. There is a choice of graphical screen layouts. The software will suggest moves.

Chinese chess is a challenging alternative

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to its western counterpart. The game engine was written by a champion Chinese chess programmer. The software allows players to set up positions of their choice, and to save and load games.

Price: $69.95
Purple Software Limited
Phone: 44 171 387 7777; Fax: 44 171 387 1188
Email: purple_software@compuserve.com
Web: www.purplesoft.com

The program can be downloaded from MobileSoft
Web: www.mobilesoft.com

eSportsCard

eSportsCard lets users view schedules for their favorite teams on their H/PC. It includes schedules for college and professional leagues for football, basketball, hockey and baseball. Updates will be made available as they are published, via Ilium's website or by email, for no charge. View by week or the whole season.

Price: $11.95 including shipping
Bytes occupied on H/PC: 60 Kb
Ilium Software
Phone: 888-632-5388 / 313-973-9388
Fax: 313-207-9358; Email: info@iliumsoft.com
Web: www.iliumsoft.com

GameBag One

GameBag One is a suite of games including Cross Hands, Hands Down, King's Corner, Namystics, Shift Left, Shuffle, and Step Up.

Price: $39.95 including shipping
Bytes occupied on H/PC: 370 Kb
Ilium Software
Phone: 888-632-5388 / 313-973-9388
Fax: 313-207-9358; Email: info@iliumsoft.com
Web: www.iliumsoft.com

Games Pack

Purple Software offers a compendium of five popular games. HomeRun (Solitaire), Checkers, Theole, Yacht (a classic dice game for Poker fans), and Enigma (hidden code game).

Price: $69.95
Purple Software Limited
Phone: 44 171 387 7777; Fax: 44 171 387 1188
Email: purple_software@compuserve.com
Web: www.purplesoft.com

The program can be downloaded from MobileSoft
Web: www.mobilesoft.com

Chess

Purple Software's Chess is an advanced chess program that enables the novice or expert to play a challenging game. Designed "from the ground up," Chess incorporates intuitive on-screen buttons, pen commands and numerous features, including:-graphics with 2D and 3D display options; a choice of several board layouts and multiple piece sets; animated moves with a choice of animation speeds; 25 master games selected by an International Master (cross-referenced in the user guide); and on-line tutorial with advice on rules, moves and move notation.

Available in four different languages.

Price: $69.99
Bytes occupied on H/PC: 190 Kb
Purple Software Limited
Phone: 44 171 387 7777; Fax: 44 171 387 1188
Email: purple_software@compuserve.com
Web: www.purplesoft.com

The program can be downloaded from MobileSoft
Web: www.mobilesoft.com

Pocket Plumber

The idea of this game is to connect together various pipes to form a complete and closed 'circuit'. The circuit must be completed within a set period of time otherwise the level must be started again. Each progressive level gets more complicated but all of them can be solved. A java simulation of Pocket Plumber may be downloaded from Website: www.buildcomm.co.uk

Price: £15 ($24)
Bytes occupied on H/PC: 40 Kb
Surerange Analysis Ltd; Download from Website
Web: www.surerange.com/wince

Poker Games from Cranbury Software

Video Poker is a Windows® CE implementation of the gambling casino Video Poker game. Caribbean Stud Poker is a Windows® CE implementation of the gambling casino Caribbean Stud Poker game. Caribbean Stud Poker provides a playing experience similar to both Blackjack and Video Poker.

Price: $9.95 each
The program can be downloaded from MobileSoft
Web: www.mobilesoft.com

Tetris for Windows CE

Tetris for Windows CE offers the same gameplay as other Tetris classics, with a few new twists. It features a new Level 10 that is achieved only by completing Level 9 with 10 accumulated lines of blocks. (More information about the original Tetris game is available at www.tetris.com)

Price: $19.95
The program can be downloaded from MobileSoft
Web: www.mobilesoft.com

WinPoker CE

Zamzow Software Solutions offers WinPoker CE, a suite of video poker games. It consists of 12 video poker variations and their respective payout tables.

Microsoft Entertainment Pack

In the stores now, also available from direct order mail order sources such as EduCALC, PDA Direct, or J&R. Price: $34.95.

The Microsoft Entertainment Pack for Windows CE is a collection of ten games designed to amuse you, puzzle you, challenge you, or just distract you for a few minutes. Some of the games are designed for two-person play: you can play against the computer or use infrared communications to play a friend on another Handheld PC. Included are the following games (with descriptions by Microsoft):

- **Blackjack:** Test your card-sense and luck at this casino game.
- **Chess:** Play the game of the ages against the computer or your favorite opponent, sharing the same Handheld PC.
- **Codebreaker:** Try to crack the secret code in this brain-teaser.
- **Freecell:** Even with all of the cards on the table, it takes skill and practice to win this version of the classic solitaire game.
- **Hearts:** Play this classic four-person card game against the computer or an opponent over an infrared beam, with the computer playing the other two hands.
- **Minesweeper:** Clear the minefield using skill and speed.
- **Reversi:** Just when you think you've won, your fortunes reverse. Play against the computer or an opponent over an infrared beam.
- **Sink the Ships**: Sink your opponent's ships before yours end up at the bottom of the sea. Play against the computer or your favorite opponent over an infrared beam.
- **Space Defense:** Defend your space station and its life pods from enemy attack. Quick reflexes are needed if you want to survive.
- **Taipei:** Match the tiles in this ancient favorite from the Far East.

If you've had a hard time finding software for Windows® CE, it's only because we have all of it.

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If it's a Windows® CE program that's worth getting, we've got it. Pen input & recognition software, games, databases, financial programs—it's all right here. Just point your browser to www.mobilesoft.com. It's quick. It's simple. It's one-site shopping right on the Web.

It's here.

www.mobilesoft.com

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Price: $14.95
The program can be downloaded from MobileSoft
Web: www.mobilesoft.com

Blox

D.I.S. Software's classic block matching arcade game is similar to Tetris. Odd shaped objects fall from the sky, and you have to arrange them fast and furiously to make entire rows of blocks disappear. Choose from three levels of difficulty. Blox comes with an instant site license, so uses can share with co-workers guilt free.

Price: $19.95
D.I.S. Software
Fax: 415-668-6668; Email: blox@dettering.com
Web: www.dettering.com

Classic Board Game Suite
Classic Arcade Game Suite

The Classic Board Game Suite provides Windows CE users with classic games, including Chess, Checkers, Reversi and a small version of Go, the ancient Chinese board game. The Classic Arcade Game Suite includes games such as Pinball, Jump-N-Run and others.

Price: $ not available at press time
Claus Christensen
Phone: 49.4106.653124; Fax: 49.4106.653123

ZzPet

A "Virtual Pet" for Handheld PCs.

Price: $not available at press time
Zeode Etc.
Phone: 805-735-2238; Fax: 805-736-8899
Email: zeode@usa.net
www.impulse.net/~amilham/ie3x/index.h

Internet

Telnet Force

Telnet Force allows users to connect to a remote server/system and carry out various operations on the remote system. These activities could include checking one's mail messages, transferring files or merely talking to another person.

Price: $34.95
Ruksun Software Technologies
Available on MobileSoft Website.
Web: www.mobilesoft.com

Handwriting/Digital Ink

CalliGrapher™

CalliGrapher is handwriting recognition software for the Windows CE operating system. CalliGrapher users can write naturally, using cursive, print, or mixed styles. The program intelligently recognizes handwriting style. It does not require a user to learn a new way of writing. It also includes a fully integrated spell-checker.

Price: $49.99
Bytes occupied on H/PC: 500 Kb-900 Kb
ParaGraph International, Inc.
Phone: 800-810-0055; Fax: 415-933-0785
Email: sales@paragraph.com
Web: www.paragraph.com

Jot™

Jot is specifically designed for handwriting input on handheld computing devices. It is user independent and combines a natural character set with a patented user interface for accurate, rapid, and modeless input. Jot supports both US and Western European characters.

Price: $69 S/H: $13 2nd day air USA
Bytes occupied on H/PC: 237 Kb to 432 Kb
Communication Intelligence Corporation (CIC)
Phone: 800-888-8242 / 415-802-7735; Fax: 415-802-7777
Email: sales@cic.com
Web: www.cic.com

QuickNotes™

QuickNotes is an electronic pad of paper, which collects handwritten notes and organizes them by date. QuickNotes instantly saves. It conserves computer memory by using CIC's unique INKshrINK® compression technology.

Price: $24 S/H: $13 2nd day air USA
Bytes occupied on H/PC: 89 Kb to 211 Kb
Communication Intelligence Corporation (CIC)
Phone: 800-888-8242 / 415-802-7735; Fax: 415-802-7777
Email: sales@cic.com
Web: www.cic.com

PenScript™

PenScript is a handwriting (ink) word processor with integrated drawing capabilities. It descends from the original, patented glyph-based word processor, QuikScript.

PenScript allows you to write and draw naturally with electronic ink on an endless sheet of 'paper'. A person using PenScript can compose and edit handwritten documents using the power of a word processor without the requirement that the writing be translated into computer text. It is suited for note taking, creating drafts of letters and documents, and making quick diagrams. Its small memory footprint and patented dynamic data compression allow large quantities of ink-based information to be maintained on a handheld computer.

Price: $49.95.
Bytes occupied on H/PC: 100 Kb
MobileSoft
For individual orders: www.mobilesoft.com
For volume purchases or floppy disk shipping contact
Marathon Development Corporation, Fax: 510-210-1211
Email: marathon@value.net; Web: www.marathondc.com
Web: www.mobilesoft.com

PocketPad

PocketPad is a digital ink notepad for the Windows CE operating system. With PocketPad, users can store notes, sketches, and drawings on the H/PC.

Price: 29.95 S/H: $2.95 standard mail
Bytes occupied on H/PC: 44 Kb
Imagineering, Inc.
Phone: 801-233-8325; Fax: 801-256-9359
Email: sales@imagne.com
Web: www.imagne.com

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nition on the H/PC running Windows CE. The user can write on the screen and the entry will be converted to typed text. The PLUS package also includes Scribble, ART's drawing program, and INKPAD, ART's Notepad for Windows CE. The software is also capable of drawing symbols to create words.

Price: $69.95 S/H: Free from Website
Bytes occupied on H/PC: 120 Kb
Advanced Recognition Technologies, Inc.
Phone: 818-678-3999; Fax: 818-678-3994
Email: sales@artcomp.com
Web: www.artcomp.com

Medical

PocketChart™

PocketChart offers a full-featured electronics medical record for Windows CE. PocketChart allows physicians and home care providers to collect vital patient data and access medical information at the point of care with seamless integration to the desktop. The package includes templates, software, care plan and template editor.

Price: $995 software only; annual support and upgrade $149. $1144 with everything.
PHYSIX, Inc.
Phone: 800-749-2585 / 713-797-1199
Fax: 713-794-0855; Email: pocketchart@physix.com
Web: www.physix.com

SpiroCard

This hardware/software system turns a Handheld PC into a full functioning diagnostic and disease management tool. The SpiroCard performs complete spirometry testing for asthmatics, sufferers of cystic fibrosis and COPD. Respiratory therapists and physicians will be able to perform testing on- and off-site, while home health agencies and chronic patients can transmit data directly to a doctor. Also available soon: the "Spirox" allowing simultaneous spirometry and pulse oximetry on one PC Card.

Price: Contact vendor; Format is a PCMCIA card.
QRS Diagnostic LLC
Phone: 612-559-8560; Fax: 612-559-2961
Email: qrssales@qrssys.com
Web: www.qrssys.com

Miscellaneous

AstroHTML

AstroHTML astronomy reference in HTML format was designed for Handheld PCs running Windows CE and Pocket Internet Explorer. Data includes 1,000 brightest stars (listing stellar magnitude, right ascension and declination), a set of twelve star charts showing the position of the major constellations throughout the year, a glossary of astronomical terms, and 175 links to astronomy-related Websites.

Price: $25 on diskette; $20 electronically
Bytes occupied on H/PC: approx. 320 Kb
SanSoft
Web: www.pdantic.com/astrohtm.htm

Computerowners Insurance Program from Safeware

Some Safeware policies cover Handheld computers. Developed exclusively for the P.C. owner, Computerowners Insurance is a comprehensive plan that covers hardware, purchased software and media. Accidental damage and damage caused by a power surge are covered. Details of additional coverage will vary with different policies. Safeware insurance will cover computers anywhere in the U. S. and Canada even while in transit, unless stolen from an unattended vehicle. This policy is not available in Texas, New York, Florida, Mississippi and eastern Pennsylvania.

Price: Rates depend on the amount of coverage needed. To determine the rate that would apply, total the values of your hardware, purchased software and media, then contact the company or company or visit their website.
Safeware
Phone: 800-800-1492; Fax: 614-781-0559
Web: www.safeware-ins.com

MobileScape

MobileScape mail-order, retail, and on-line stores provide Handheld PC software, accessories, and services. MobileScape personnel evaluate, test, and compare products in-house.

MobileScape
800-852-7877; Fax: 602-941-5505
Email: catalog@mobilescape.com
Web: www.mobilescape.com or www.rupp.com

MobileWord

MobileWord provides a document creation option that bypasses the use of the Handheld PC's keyboard or pen-entry capabilities. Users (in the USA) call a toll free number and dictate the document. The document is typed and placed in a "mailbox" on the MobileWord website. The customer uses the

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All freeware and shareware mentioned here can be accessed from the Handheld PC Magazine *Website:*

http://www.thaddeus.com

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PATCHES

Service Pack 1 Casio

Casio and Microsoft discovered a problem with some of the earlier CASSIOPEIAs, and Casio is providing this service pack program to improve the power management feature on the CASSIOPEIA (Models A-10 & A-11). Even though the CASSIOPEIA power is turned off, a software problem may prevent the unit from properly entering the standby mode, and some circuits may still operate. The Service Pack corrects this problem.

Type: Freeware
Web: www.casiohpc.com/ hpc-srvpk1.html

Service Pack 1 Compaq

Compaq and Microsoft discovered a problem with some of the earlier PC companions, and Compaq is providing this service pack program to improve the power management feature on the PC companion (models C120, C120+ and C140). Even though the PC companion power is turned off, a software problem may prevent the unit from properly entering the standby mode, and some circuits may still operate. The Service Pack corrects this problem.

Type: Freeware
Web: www.compaq.com/products/handhelds/detail.html

Handheld PC to retrieve the typed work via wireless modem or dial-up connection.

Price: Contact vendor
MobileWord
Phone: 212-213-0214; Fax: 212-213-0335
Email: rcox@mobileword.com
Web: www.mobileword.com

TeleType GPS

TeleType GPS database graphically displays city nodes and US interstate highways in real time with the ability to pan and zoom so the user has readily available position information. World wide maps are also available. The GPS software and mapping program is packaged with a GPS receiver/antenna package. The company also sells a carrying bag for GPS and Handheld.

Price: $195 for software only; various packages available combining software and hardware. S/H: $10.50
Bytes occupied on H/PC: 80 Kb
GPS receiver also available

TeleType GPS.
Phone: 888-835-3897 / 617-734-9700; Fax: 617-734-3974
Email: gps@teletype.com
Web: www.teletype.com/gps

WorldPages.com/CE

This Internet resource supports users of Windows CE by customizing the page view to the size of the H/PC screen when a user dials in. WorldPages is a comprehensive white and yellow pages directory with over 112 million listings, maps, menus and access to directories for dozens of countries. It also includes 9 million email addresses, 30 million URLs, and links to over 200 directories.

Price: No charge for users
Web: www.worldpages.com

For those who may wish to advertise, contact WorldPages, Inc., Attn: Frank Dorf; Phone: 415-536-0680 ext. 15; Fax: 415-536-0681

Programming

Corporate Connection

Corporate Connection makes the ODBC APIs available on Windows CE and Newton platforms. The use of ODBC calls make it possible for the user to access a variety of databases such as Oracle, Sybase, Ingres, Informix, Lotus Notes and MS Access on handheld devices.

Corporate Connection provides database access over telephone, cellular and wireless packet data networks such as ARDIS and CDPD.

Price: $250 for the development toolkit and 5-user license.
River Run Software Group
Phone: 203-861-0090; Fax: 203-861-0096
Email: info@riverrun.com
Web: www.riverrun.com

Ethernet Controller

Cirrus Logic makes Ethernet Controller integrated circuits for H/PCs for use by developers/OEMs.

Price: Contact vendor
Cirrus Logic
Phone: 512-912-3827; Fax: 512-442-7340
Email: ethernet@crystal.cirrus.com
Web: www.crystal.com

HPC.Connect™

HPC.Connect is an ActiveX control for use with Windows CE. HPC.Connect offers complete programmatic control over a connected H/PC. Users can add connectivity with Windows CE to any application using an object-oriented syntax that even beginning programmers will understand.

HPC.Connect provides file manipulation, database control, and system control. It offers broad support for a number of ActiveX-compliant development environments such as Microsoft Visual Basic and Access, PowerBuilder, Optima ++, Delphi, and more.

The product is currently in beta and available for a free download.

Price: TBA
HPC Technologies, Inc.
Email: info@HPCTech.com
Web: www.HPCTech.com

InstantRF®

InstantRF is a "radio-smart" layered architecture consisting of four products. The lower layers, RFmlib, RFgate and RFlink, offer a set of middleware connectivity tools and APIs designed to speed development and lower implementation costs. The upper layer product, RFexpress, offers additional functionality including store-and-forward message queuing and automatic roaming.

Price: SDK and runtime license pricing available.
Nettech
Phone: 609-683-0100; Fax: 609-683-5019
Email: instantRF@NettechRF.com
Web: www.nettechRF.com

Intrinsyc Signal Processing Libraries for Windows CE & NT

Intrinsyc SP Libraries provide developers of Windows-based embedded systems with a wide range of pre-packaged development tools to choose from. Intrinsyc SP Library components currently include more than 200 individual processing modules, divided into 10 groups as follows: State Machines, PID Loop Controllers, Signal Generators, Timespan Processors, Logical Operators, Checkers, Mappers, Modular Parcers, Digital Filters, and Thermocouple Linearizers.

Intrinsyc SP Libraries ship with Intrinsyc's Integration Expert embedded systems devel-

opment tools. Intrinsyc SP Library components will be made available individually or collectively as run-time licenses as part of the Company's suite of software product offerings. Intrinsyc's systems integration group will also create additional custom SP components upon request for specific applications.

Price: varies
Intrinsyc
Phone: 800-474-7644; Email: info@intrinsyc.com
Web: http://www.intrinsyc.com

pocketGrid(TM).

This development product makes it easy to create visual interfaces for displaying any type of data including Windows CE ObjectStore databases.

Price: $600 for the full package with source code; $200 for existing Ultimate Grid users; $25 standard shipping (each package includes royalty free redistribution and one year of technical support.)
Bytes occupied on Windows CE (if used on Windows CE): Adds as little as 70k to an application
Shipped on CDROM (or floppy if requested)
Dundas Software
Phone: 800-463-1492 / 416-239-7472; Fax: 416-239-2183
Web: www.dundas.com
FTP: ftp.dundas.com

MS Visual C++ for Windows CE

This new program from Microsoft is an add-on to Visual C++ 5.0 that lets developers create high-performance applications and custom solutions for the new generation of Windows CE-based devices.

Price: $199

MS Windows® CE Toolkit for Visual C++® 5.0

The Windows CE Toolkit for Visual C++ lets you quickly and easily develop robust Windows CE applications, building on your expertise with the Win32 API and the award-winning Microsoft Visual C++ Development System.

Price: $not available at press time

MS Visual Basic 5.0

Lets Visual Basic developers create applications and solutions for Windows CE-based devices.

Price: $not available at press time

MS Windows® CE Toolkit forVisual Basic® 5.0

The Windows CE Toolkit for Visual Basic 5.0 delivers the tools Visual Basic programmers need to easily build solutions for Windows CE-based devices.

Price: $not available at press time

MS Visual J++ 1.1

Allows easier Java application development and debugging.

Price: $not available
Available directly from the Microsoft website
www.microsoft.com/windowsce/developer

MS Windows® CE Toolkit for Visual J++™ 1.1

The Windows CE Toolkit for Visual J++ 1.1 enables you to build embeddable Java applications for Windows CE devices.

Price: $not available at press time

Windows CE ODBC Driver

This driver allows Handheld PCs to act as ODBC data sources for desktop applications, connecting them to commonly available software such as Access, Excel, Visual Basic, Powerbuilder, and Crystal reports. It enables desktop developers to share data with Windows CE without coding to yet another API. The ODBC 2.1 compliant driver resides on the Windows box consuming none of the handheld's memory space.

Price: $49 (volume discounts available) S/H: $10
Syware, Inc.
Phone: 617-497-1300; Fax: 617-497-8729
Email: frank@syware.com
Web: www.syware.com

Windows CE Evaluation and Development Systems

Eclipse International provides system hardware and software products for the rapid deployment of non-desktop, embedded systems based on Microsoft Windows CE operating system. Eclipse has developed evaluation systems, standard board-level solutions, training programs and technical support programs for Windows CE that will enable Eclipse's customers to create and deploy a wide range of products based on Windows

FREE MICROSOFT SOFTWARE

Downloadable from Microsoft's Website

MS Pocket Automap Streets

With Pocket Automap Streets, users enter the address they're looking for, and get a detailed street map showing you the precise location requested. The program comes with maps of 40 selected cities in the United States. Go to Pocket Automap Streets download page.
Web: www.microsoft.com/expedia/streets/pocket.htm

Pocket Internet Explorer

Pocket Internet Explorer supports World Wide Web browsing. Now, version 1.1 has more features including security, cookies and caching. Go to Microsoft Pocket Internet Explorer download page.
Web: www.microsoft.com/windowsce/hpc/software/mspie.htm

Power Toys (includes Remote Control)

These small programs are designed to make Handheld PCs more personal and more convenient. Use Remote Control to see and control a Handheld PC from a desktop computer. Create pictures and edit images with Paint. Use Cascading Menus for file and folder access via cascading and scrolling menus.

Three new sound schemes are now available including Analog, Metallic, and Organic. Mute turns off all sounds with the tap of a taskbar button. Personalize the H/PC desktop with Arcade, Argyle, Cars, Castle, Chitz, Concrete, Honey, Squares, and Thatch bitmap tiles. Go to Power Toys download page.
Web: www.microsoft.com/windowsce/hpc/software/powerr.htm

Handheld PC File Converter

This program converts files from a Handheld PC to your desktop or laptop PC without using H/PC Explorer. Convert files in place or convert and copy to a specified location, such as a PC storage card. Go to Handheld PC File Converter download page.
Web: www.microsoft.com/windowsce/hpc/software/convertr.htm

CE operating systems. Eclipse is also a worldwide distributor of OEM licenses for Windows CE.

Eclipse International also offers Windows CE training classes for ISVs, IHVs, and OEMs.

Price: varies
Eclipse International, Inc.
Phone: 415-691-6555; Fax: 415-428-0292
Email: twong@eclipseint.com
Web: www.eclipseint.com

Product Testing For Windows CE

VeriTest is an authorized test site for the "Designed for Windows CE" software logo. VeriTest's Compatibility Lab for Windows CE offers a broad range of compatibility and functionality testing to Handheld PC hardware and software developers.

Price: varies
VeriTest
Attn: Erik Bowman (compatibility); Andre Thibodeaux (logo)
Phone: 310-450-0062; Fax: 310-399-1760
Email: enb@veritest.com
Web: www.veritest.com/windowsce/

Real Estate

Builders Square

Builders Square provides software tools for a building inspector to track, plan, and review inspection status and construction permit records for a city or county agency.

Price: $750 Delivered on flash card
CRW Associates
Phone: 619-451-3870;
Email Chris@crwassoc.com
Web: www.crwassoc.com

Foresight Technologies Products and Services

Foresight Technologies provides business communications solutions featuring Windows CE office information handler. Customized mobile applications for the real-estate and mortgage banking industries are available.

Price: Varies
Foresight Technologies, Inc.
Phone: 516-663-0426; Fax: 516-746-4840
Email: timmons@ix.netcom.com

Retail

Retail Product Verification System (P.V.S.)

The Mobile Retail Store Audit System includes merchandising activities and manufacturer surveys. Users can mask out unauthorized items by retail chain and prioritize individual products. Optionally, the system allows input of data by department. The program provides schematic verification, including text messages for goals and instructions, and handles individual store product codes. Upgrade or mix and match with Windows 95/NT version, using the same data as the product running Windows CE.

Price: call vendor. Host system available now
Bytes occupied on H/PC: 60 Kb plus data
Bestware Computer System, Inc.
Phone: 805-296-4239; Fax: 805-296-4239
Email: dcarl@earthlink.net
Web: www.home.earthlink.net/~dcarl/

Sales

RW3 CE

Provides field sales automation solution. Field personnel use RW3 CE for capture of sales and merchandising conditions. E-mail, scheduling, contact management and Internet access round out the product. Allows managers to access reports via desktop or fax-on-demand. Integrated email Post Office included.

Price:Varies
RW Information Technologies Corporation
Phone: 800-444-5793; Fax: 510-355-0897
Email: bnagle@rw3.com
Web: www.rw3.com

Science/Engineering

CE Data Acquisitions Software for RS232 and PCMCIA Ports

ADPI offers data acquisition software enabling Handheld PCs to become low-cost, dedicated instrumentation and process controllers. Applications would be primarily in the area of science and technology data collection.

Price: $99ÿ
ADPI (Analog & Digital Peripherals, Inc.)
Phone: 800-758-1041 / 937-339-2241
Fax: 937-339-0070; Email: adpi@adpi.com
Web: www.adpi.com

Special Input

InScribe™

InScribe for Windows CE is a new way to enter text on a Handheld PC. Users enter text and numbers by moving the stylus between characters on a grid. The grid is fully configurable, allowing users to design the layout that works best for them. InScribe supports the complete ANSI character set, including international language characters for western European languages.

Price: $39 including shipping
Bytes occupied on H/PC: 48 Kb
Ilium Software
Phone: 888-632-5388 / 313-973-9388; Fax: 313-207-9358
Email: info@iliumsoft.com
Web: www.iliumsoft.com

QuickText

A text glossary for Windows CE, this program works in PocketWord, TakeNote, and others. It offers one-tap access via stylus, and two-level hierarchy.

Price: $29.95 S/H: $4.50 first class mail
Bytes occupied on H/PC: 25 Kb
LandWare, Inc.
Phone: 800-526-3977 / 201-261-7944; Fax: 201-261-7949
Email: sales@landware.com
Web: www.landware.com

TakeNote

An intelligent notepad that handles ink notes, text notes, conversions, phone memos and plane travel information. Includes New Contact, New Task and Launcher.

Price: $39.95 S/H: $4.50 first class mail

Bytes occupied on H/PC: 120 Kb
LandWare, Inc.
Phone: 800-526-3977 / 201-261-7944; Fax: 201-261-7949
Email: sales@landware.com
Web: www.landware.com

smARTcontact

Advanced Recognition Technologies' smARTcontact provides speech commands to the contact manager supplied with the Windows CE operating system software. The user speaks a contact name and the software looks up the name in the contact list. Once found, the user can say "Dial" and the program dials the phone number of the contact. Requires H/PC with microphone.

Price: $49.95 S/H: Free from Website
Bytes occupied on H/PC: 70 Kb
Advanced Recognition Technologies, Inc.
Phone: 818-678-3999; Fax: 818-678-3994
Email: sales@artcomp.com
Web: www.artcomp.com

smARTcommand™

smARTcommand for Windows CE operating system allows the user to activate a program application or open a file by voice. Works on H/PC s with a microphone.

Price: $29.95 S/H: Free from Website
Bytes occupied on H/PC: 70 Kb
Advanced Recognition Technologies, Inc.
Phone: 818-678-3999; Fax: 818-678-3994
Email: sales@artcomp.com
Web: www.artcomp.com

smARTmemo

smARTmemo adds speech to the H/PCs that have a microphone. This program, when activated, allows the user to record memos on the H/PC and save them for later playback or to attach to an Email to send to others.

Price: $49.95
S/H: Free from Website
Bytes occupied on H/PC: 70 Kb
Advanced Recognition Technologies, Inc.
Phone: 818-678-3999; Fax: 818-678-3994
Email: sales@artcomp.com
Web: www.artcomp.com

HPC Notes

HPC Notes is a notes organizer for Windows CE. When users enter a new note, the program provides them with organization to facilitate later retrieval, including: type, subject, creation and modification date. It is possible to send an email directly from the note editor, as well as import and export text files.

Price: $39.95
(15-day free trial available by downloading the program from the company Website)
Bytes occupied on H/PC: 55 Kb.
Cognitive Technology Corporation
Phone: 415-925-2323; Fax: 415-461-4010
Email: ctc@ocr.com
Web: www.ocr.com

KeyMapPro

KeyMapPro facilitates use of special characters not normally available from the keyboard. Macros allow users to quickly enter frequently used text.

Price: £15 ($24)
Bytes occupied on H/PC: 460Kb
Surerange Analysis Ltd
Download from Website
Web: www.surerange.com/wince

Synchronization

ASL-Connect

ASL-Connect software remotely connects Windows CE to corporate systems over any networking infrastructure. It provides 2-way database synchronization between the H/PC and any ODBC compliant database. It supports file transfers and enables the remote installation of applications. All transactions are logged, which insures full management control.

Price: Varies
Bytes occupied on H/PC: 63 Kb
Advance Systems
Phone: 888-222-1978 / 408-954-7314
Fax: 408-273-6034; Email: info@asl.com
Web: www.asl.com

Desktop To Go™

Desktop To Go provides direct synchronization capabilities for Lotus Organizer 97 and 97 GS. Synchronization can be performed with the touch of a button or immediately upon connecting an H/PC to the desktop. Also included are Pocket Word and Excel import/export filters for WordPerfect, Ami Pro, MS Works, Lotus 1-2-3 and Quattro Pro. Visit www.dataviz.com for a 30-day trial.

Price: $49; S/H: $6 (USA) $15 (Canada) $20 (elsewhere)
DataViz, Inc.
Phone: 203-268-0030 ext. 3037; Fax: 203-268-4345
Email: info@list. dataviz.com
Web: www.dataviz.com

InSync!™

In Sync! provides direct and remote synchronization of Schedule and Calendar information between Groupware Applications and the Calendar, Tasks, and Contacts applications on Windows CE. In Sync! currently provides synchronization from Lotus Notes, Lotus Organizer, and Microsoft Schedule+/ Outlook97, over telephone, cellular and wireless packet data networks, such as ARDIS and CDPD.

Price: Call Vendor.
River Run Software Group
Phone: 203-861-0090; Fax: 203-861-0096
Email: info@riverrun.com
Web: www.riverrun.com

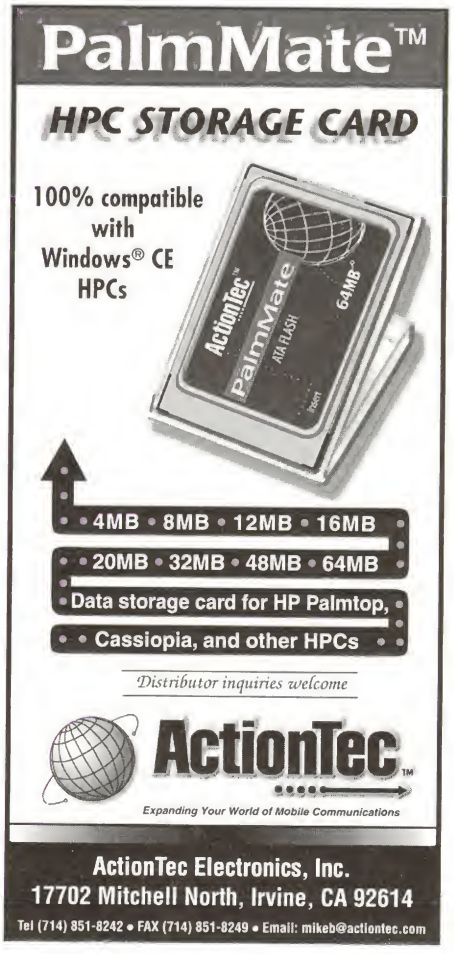
Intellisync™

This software provides direct synchronization of contacts, calendar and task information between Windows CE and a wide range of PC-based contact managers, personal information managers and group schedulers. Programs supported for synchronization include Act!, Outlook 97, Microsoft Schedule+, Lotus Organizer, ECCO, GoldMine, NetManage, DayTimer Organ-izer, Sidekick, and others.

Price: $69.95, S/H: $9.95
Bytes occupied on H/PC: 27,126
Puma Technology
Phone: 800-774-7862; Fax: 408-321-3850
Web: www.pumatech.com

IntelliMigrate™

This content-aware software provides one-button synchronization of calendar and address book data between Windows CE and



several other types of palmtops or PDAs. It is done through a link to a desktop or laptop computer. Synchronization options included for Sharp Electronics, Hewlett-Packard, and Casio devices.

Price: $39.95. Can be downloaded.
Puma Technology
Phone: 800-774-7862; Fax: 408-321-3850
Web: www.pumatech.com

JetForm Filler for CE™

JetForm for Windows CE allows 2-way transfer of data between H/PCs and existing JetForm forms. The company provides 60-day free technical support.

Price: Contact vendor
JetForm Corp.
Phone: 800-538-3676 or 613-751-4800
Web: www.jetform.com

Maximizer CELink

Maximizer CELink provides two-way synchronization with Maximizer 97's Hotlist, Calendar, Contact files, and Notes with H/PCs PIM. Must have Maximizer 97 or higher for Windows 95 or NT.

Price: $49
Maximizer CELink
Phone: 604-601-8000; Email: info@maximizer.com
Web: www.maximizer.com

pcANYWHERE CE

Users can operate their desktop PCs remotely from their Handheld PC with this product. Requires Windows 95 or Windows NT 3.5/4 on the desktop.

Price: $79.95
Symantec
Phone: 800-441-7234 / 541-334-6054; Fax: 800-554-4403
Web: www.symantec.com

Pocket Carbon Copy

Pocket Carbon Copy allows Handheld PC users to access information from their desktop PC at any remote location. It provides the remote computing power for users to send and receive email, update databases and access applications from their office PC. Through a dial-up connection, network managers may remotely monitor and control their NT servers.

Price: $89.95; guest version for Handheld PC only, $49.
Downloadable from company Website.
Microcom, Attn: Jeff coveney
Phone: 617-551-1000; Fax: 617-551-1968
Email: jcoveney@microcom.com
Web: www.microcom.com

Randsoft Harmony 97™

Randsoft Harmony 97 provides embedded one-click synchronization between H/PCs and many contact managers (PIMS) by adding a menu bar inside the applications. It supports the following PIMS: MS Outlook97, Lotus Organizer '97, Ecco Pro 4.0, ACT! 3.0. A free trial version is available to download from the Randsoft Website.

Price: $59.95
Rand Software Company
Phone: 888-726-3763 / 802-362-0663 ; Fax: 802-362-6052
Email: info@randsoft.com
Web: www.randsoft.com

Utilities

ArtSKEY

ArtSKEY is an international keyboard mapping utility for Handheld PCs.

Price: $25
Download from MobileSoft website
Web: www.MobileSoft.com

bFIND

bFIND, a global-find utility for the Windows CE Handheld PC, allows users to search the contents of their Handheld PC. Search the Appointments database, Contacts list, email messages, and list of file names - all at the same time.

Price: $19.95
bsquare development
Phone: 888-820-4500 / 206-519-5941;
Fax: 206-519-5999; Email: bFAX@bsquare.com
Web: www.bsquare.com/development

bPRINT™

Allows users to print from their Handheld PC. bPRINT is integrated with bFAX. All documents supported by bFAX are also supported by bPRINT. (Pocket Word documents are supported in the 3.01 release of bFAX Professional. Registered users of bFAX Professional 3.0 can download this functionality free at the bsquare development Website.) Casio Digital Camera file support for bPRINT is also available as a free download at the bsquare Website. Third-party cables connect a user's Handheld PC to an HP-PCL4(R)- compatible printer (both sold separately).

Price: $29.95 S/H: $6
Bytes occupied on H/PC: 330-370 Kb
bsquare development
Phone: 888-820-4500 / 206-519-5941
Fax: 206-519-5999; Email: bFAX@bsquare.com
Web: www.bsquare.com/development

FindForce

FindForce from Ruksun Software Technologies is an application which allows the user to locate files easily. It sieves through the various files on your H/PC and identifies the file(s) that the user is looking for.

Price: $19.95
Download from MobileSoft website.
Web: www.MobileSoft.com

Intelliant™ DocSafe Security Software

Intelliant DocSafe manages the security of data on computers running Windows CE, Windows 95 and Windows NT. It ships in personal and professional versions. The professional version comes with Intelliant Padlock which lets users create an Intelliant DocSafe compatible file using a separate key for every file. It supports secure email, posting sensitive information to intranets, and automating mass file locks. A free trial version is available at the company website. Intelliant products are also available from MobileSoft website.

Price:$34.95 personal; $49.95 professional
Bytes occupied on H/PC: approximately 112 Kb
Intelliant Software
Phone: 503-698-3749; Email: sales@intelliant.com
Web: www.intelliant.com

PhoneTone 2.0

(See also PhoneTone shareware which has a few less features than this commercial version.) PhoneTone 2.0 is an auto-dialer and TouchTone generator. Users can select a phone number from Contacts, and let PhoneTone automatically dial it by tone generation from any phone. Set up all calling cards and access codes once, then pick and use them any time. PhoneTone 2.0 navigates phone systems from overseas or rotary phones. It supports both manual and auto-dialing modes, and includes a complete US/Canada area code database.

Price: $20 (regular or email shipping included).
Bytes occupied on H/PC: 38KB
Ilium Software
Phone: 888-632-5388 / 313- 973-9388;
Fax: 313-207-9358; Email: info@iliumsoft.com
Web: www.iliumsoft.com

Pocket Spell

Pocket Spell checks spelling on individual words, finds anagrams and solves crosswords. It offers suggestions to incorrect words.

Price: £15 ($24)
Bytes occupied on H/PC: 560Kb
Surerange Analysis Ltd
Download from Website
Web: www.surerange.com/wince

Pocket Timer

Pocket Timer times laps, counts up or down in pre-defined stages and provides alarms.

Price: £10 ($16)
Bytes occupied on H/PC: 467Kb
Surerange Analysis Ltd
Download from Website
Web: www.surerange.com/wince

Productivity Pac Windows CE

LandWare has compiled a package of utilities. It supports searching for a file, retrieving a file from an H/PC backup image, dialing the phone, adding a new task/contact and entering glossary text. Utilities include FindForce, HPC Vault, Pocket Dialit4Me, NewTask, New Contact, QuickText and LaunchBar.

Price: $39.95 S/H: $4.50
Bytes occupied on H/PC: 175 Kb
LandWare, Inc.
Phone: 800-526-3977 / 201-261-7944
Fax: 201-261-7949; Email: sales@landware.com
Web: www.landware.com

Shell Force

Shell Force from Ruksun Software Technologies is an application for the Windows® CE platform, along the lines of the MS-DOS prompt on Windows® 95/NT.

Price: $25
Download from MobileSoft website.
Web: www.MobileSoft.com

The Utility Closet CE

This collection of utilities for Windows CE includes converters, timers, mini-notes, and other tools to simplify common tasks. These add-ons were written specifically for Windows CE and work as extensions to the base software provided with Handheld PCs.

Available: Release date has not been announced
Price: $25.00 (subject to change)
Bytes occupied on H/PC: 125 Kb (estimated) or Internet download
Plannet Crafters, Inc.
Phone: 770-667-1278; Fax: 770-752-5416
Email: info@plannetarium.com
Web: www.plannetarium.com

Shareware/Freeware

Whenever possible (about 80% of the time), all freeware and shareware mentioned in this section can be downloaded at Handheld PC Magazine's web site, www.thaddeus.com, or copied from **Handheld PC Magazine's** *PowerCD. When not possible, a live link to the appropriate web page can be found at* **www.thaddeus.com** *and on the PowerCD.*

Games

FrotzCE.html

This program allows users to run interactive, text-based "infocom" games on the H/PC. It includes Zork1, Zork2 and others. It was written by Ian Dean.

Type: Freeware
Email: idean@aztec.co.za
Web: www.pyram-id.demon.co.uk

Space Invaders

The Windows CE version (by Scott Ludwig) of the popular arcade game.

Type: Freeware
Web: homepages.enterprise.net/craig/hp c/invaders.zip

Pocket Jongg

A strategy game, related to Taipee or MahJongg, but following different rules.

Type: Shareware
Web: www.c-labs.com/clabs/pocketJongg/default.asp

Tile Force

The Tile Force game from Ruksun Software Technologies consists of a tile pad on the left and tiles on the right. The object of the game is to move the tiles from the right onto the tile pad, in such a way that the adjacent faces of any tile have the same digit on them. Tile Force is very similar to TetraVex.

Web: www.corus.com/wince

YachtCE

YachtCE is the game of Yahtzee for your Windows CE handheld computer (H/PC) with a few differences. Fun to play. Zip file contains executables for both SH3 and MIPS. Written by Mark Gamber. Type: Freeware Web: markg.pptnet.com/utilities.asp

Web: markg.pptnet.com/utilities.asp

Internet

ICE

ICE, from Ruksun Software Technologies, is the first IMAP4 client available for Windows CE. It is an on-line email client, with a native Windows CE user interface. ICE is designed to let a busy mobile user quickly browse through his/her most important messages, without having to download either the entire message or the large attachment(s). ICE also allows the user to send mail messages (compose, reply and forward) using SMTP.

Type: Shareware ; Price: $29.95
Web: www.corus.com/wince/

KazTELNET

KazTELNET for WinCE is a Freeware Telnet client that works on the HPC. KazTELNET has VT100 like emulation.

Yamada Kazuo
Email: kayamada@softbank.co.jp
Web: www.softbank.co.jp/thewindows/editors/kaz/tools/tools.htm

MY FTP

MY FTP is a Freeware BETA version written by MAENO Yasushi. MY FTP is a character based FTP client software for Windows CE devices.

MAENO Yasushi
Email: ym1-cc@kt.rim.or.jp
Web: www.kt.rim.or.jp/~ym1-cc/myftp-e.html

MGTime

MGTime is a small time utility that lets you set your H/PC clock by an Internet time service. Written by Mark Gamber.

Type: Freeware
Web: markg.pptnet.com/utilities.asp

Net Tools

Net Tools is a set of Internet Utilities for the H/PC, especially useful to Network Administrators. It includes: Finger, to look up users on a remote machine; WHOIS, a TCP transaction based query that provides netwide directory service to Internet users; and NS Lookup (NameServer Lookup), used for querying Domain Name Servers (DNS) for information about other servers.

Ruksun Software Technologies
Web: www.corus.com/wince/

Miscellaneous

Calendar Search

Calendar Search can be used to search for any text string in the Calendar database. By Panutat Tejasen (Jimmy).

Type: Freeware
Panutat Tejasen (Jimmy)
Email: jimmy@jimmy.com
Web: www.jimmy.com/Calendar Search

Desk-Clock

Desk-Clock displays a large Digital clock on the Handheld PC screen. Written by Pedro M.G. van Can.

Type: Freeware
Email: psion@xs4all.nl
Web: www.xs4all.nl/~psion/hpc.html

JimmyNotePad

This is a NotePad program that accepts extended keyboard layout and/or keyboard special key sequence. Written by Panutat Tejasen (Jimmy).

Type: Freeware
Panutat Tejasen (Jimmy)
Email: jimmy@jimmy.com
Web: www.jimmy.com

Martin Heller's Egg Timer

Dr. Martin Heller, Senior Contributing Editor and Programming Windows columnist for *WINDOWS Magazine* (and the author of half a dozen PC software packages), has released the Freeware Egg Timer. Egg Timer is a simple timer application that can be set to give an alarm varying from 1 second to 99 hours. It allows you to have sounds for the alarm, be interrupted with a message, and/or see a flashing light. There are versions for SH-3 and MIPS, and a combined version that also includes the source code. There is no documentation file, so install the correct timer .exe for your H/PC (SH-3 for Casio, HP, Compaq; MIPS for NEC and Philips) in the root directory of your device. If you don't, you may get error messages if you set alarms without dialog boxes.

Type: Freeware
Web:www.winmag.com/people/mheller/wincepro.htm

pdsContacts

pdsContacts is a Contacts database for the H/PC which features contact categories and works with existing synchronization. pdsContacts requires mfcwce.dll to be on your H/PC in the windows directory (HP 300 series comes with mfcwce.dll in ROM).

Type: Shareware; Price: $5.00
Jim Struthers, Plastic Dog Software
10340 N. Walnut Circle, Unit A, Cupertino, California, 95014
Web: home.att.net/~eggsala/contacts.html

Portable Info

Ilium Software's Portable Info is a collection of useful information formatted for Windows CE by Ilium Software, and available on their website. It includes credit card and telephone company emergency numbers, hotel and airline toll-free numbers, North American area codes, and general conversion and measurement information.

Type: Freeware; Bytes occupied on H/PC: 20K
Ilium Software
Phone: 888-632-5388 / 313-973-9388
Fax: 313-207-9358; Email: info@iliumsoft.com
Web: www.iliumsoft.com

Wallpaper and PhoneSounds

This file offers assorted backgrounds for the Handheld PC desktop, including animals, footsteps, instruments, star wars, and HPC. Phone sounds are wave files of the tones that telephones make.

ddm europe
Web: www.ddmeurope.com/hpc/

Wallpaper and WAV Files

Here is a collection of backgrounds and WAV files.

Email: psion@xs4all.nl
Web: www.xs4all.nl/~psion/hpc.html

Programming

miniBasic

miniBasic is a small, primitive BASIC that runs on Windows CE Handheld PCs.

Type: Freeware
B&B Systems
Email: bnbweb@mindspring.com
Web: www.mindspring.com/~ bnbweb/

TraceViewForce

This is a tool to clean code for WinCE applications. It now includes a "Save to File" option and new macros.

Ruksun Software Technologies,
Web: www.corus.com/wince/

Utilities

PhoneTone

PhoneTone for Windows CE generates TouchTone™ sounds from a Handheld PC, turning the H/PC into a portable speed dialer. The software allows users to retrieve phone messages when at a rotary phone or overseas. It will dial numbers from a Contacts database, or from those entered via the H/PC keyboard or onscreen keypad.

Price: $20 US S/H: $3 standard mail
Bytes occupied on H/PC: 30K
Ilium Software
Phone: 888-632-5388 / 313-973-9388
Fax: 313-207-9358; Email: info@iliumsoft.com
Web: www.iliumsoft.com

Pocket Dial

This program, by Tony Jones and Steve P. Miller, integrates your Contacts database with touch tone dialing via your H/PC's speaker. Hold the receiver of your phone near your H/PC's speaker, and your H/PC will generate the tones needed to dial. Features include speed dial and customizable prefix rules (long distance, area code, access numbers, etc.).

Type: Freeware
Thaddeus Computing
Web: www.thaddeus.com

FreeMem

This program gives a running total of the free file and program memory (in KBytes). The task bar can give a constantly visible indication of your free space. Values are updated every eight seconds.

Type: Freeware
Surerange Analysis Limited
Email: surerange@dial .pipex.com
Web: www.demon,co,uk/sureanal/download.html

Pocket UnZip

This program, by Steve P. Miller, brings support for the popular ZIP file format to the Windows CE platform (it also runs on Windows NT). You can extract, test, or view any ZIP file. Pocket UnZip can also help you maximize your PCMCIA flash card storage. Just ZIP up all your data files into a single compressed ZIP file and store it on your flash card. Then use the Pocket UnZip to view those files directly from the ZIP files themselves.

Type: Freeware
Thaddeus Computing
Web: www.thaddeus.com

WinFinger

WinFinger is a small utility used to look up information about people on the Internet given their email address. Enter the Name of the email address in the first email field and the domain name in the second field. When both fields are complete, select the "Find" button (or press Enter) to begin the process. WinFinger requires that the domain in question accepts finger queries. If it does not, you will receive an error or nothing at all. Written by Mark Gamber.

Type: Freeware
Web: markg.pptnet.com/utilities.asp

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Of All Your Communications With A Single Wireless Service.

ZAP-IT™ wireless service clears away the communication clutter. Now one wireless service handles all your communication needs. Whether messages originate as e-mail, faxes, or phone messages, you can ***receive*** and ***respond*** wirelessly using your handheld PC or laptop. Now there's no need to dial in for e-mail or call the office for phone messages and faxes. Get 24-hour access to all your communications with one wireless solution.

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(1-888-2-438-387)

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BUYER'S GUIDE 1998

DTS Wireless, 10 Woodbridge Center Drive, Woodbridge, NJ 07095

E-mail: info@dts.net • Web site: www.dtswireless.com

dbDelete

dbDelete was written to address the problem of applications uninstalling themselves and leaving behind databases in the Windows CE object store, and as a way to delete unwanted databases in the object store. dbDelete can remove databases such as your contacts database, your Appointments database and your Tasks database. IT IS NOT TRANSFERED TO THE RECYCLE BIN - THERE IS NO UNDO FACILITY. It is therefore advised that you backup your H/PC with either your PC based H/PC Explorer, or to a storage device, such as a Compact Flash card, before using dbDelete for Windows CE. [NOTE: Read all documentation before using this program.]

Type: Freeware
Sunplan Ltd.
Phone: +44 151 328 1043; Fax +44 151 328 1044
Email: sunplan@guru-c.demon.co.uk
Web: www.guru-c.demon.co.uk/sunplan/

JimmyQuickMenu

This small utility from Panutat Tejasen (Jimmy) is a "Quick Application Launcher" which speeds application start-up. Another feature is "Close all" which will close all programs that are currently running.

Type: Freeware
Panutat Tejasen (Jimmy)
Email: jimmy@jimmy.com
Web: www.jimmy.com

JimmyTimer

JimmyTimer is a small Stop Watch/Time Log utility which let you use it to record time in a hobby such as racing cars. When you start the program and press space bar, the program will show the current time (accurate up to 1/1000 second) in the table so you can use it as the multi log stop watch. Written by Panutat Tejasen (Jimmy).

Type: Freeware
Panutat Tejasen (Jimmy)
Email: jimmy@jimmy.com
Web: www.jimmy.com/

MGDesk

MGDesk is a small Control Panel applet for Windows CE handheld computers (H/PC). MGDesk allows you to select which system icons appear on your desktop (or not). Written by Mark Gamber.

Type: Freeware
Web: markg.pptnet.com/utilities.asp

MGQKey

MGQKey is a "hotkey" program for Windows CE. The program provides access to any program you assign to it. The setup window allows you to specify which programs are assigned to which keypresses. After you have made your key assignments, you can start the programs specified by pressing their assigned keys. Written by Mark Gamber.

Type: Freeware
Web: markg.pptnet.com/utilities.asp

TFTP

Trivial File Transport Protocol (TFTP) is a protocol used to transfer files. A TFTP Server running on an H/PC could be used (along with Telnet Force) by Network Administrators to configure routers or other Network equipment.

Type: (Beta)
Ruksun Software Technologies
Web: www.corus.com/wince/

LDAP Client

The Lightweight Directory Access Protocol (LDAP) is a strategic directory protocol. It defines a reasonably simple mechanism for Internet clients to query and manage an arbitrary database of hierarchical attribute/value pairs over a TCP/IP connection (port 389). (For a list of public domain LDAP servers check http://www.dante.net/np/pdi.html)

Type: Demo
Ruksun Software Technologies,
Web: www.corus.com/wince/

Services

Online

America Online

America Online offers a Windows CE special interest area. So far it can only be accessed from a desktop or laptop. Use keyword WCE.

AOL 888-265-8001

CompuServe

CompuServe provides HPHAND and PALMB sections for use from a desktop PC. CompuServe bulletin boards can be accessed as text or ASCII from the H/PC using the built-in terminal application.

CompuServe 800-848-8990 / 614-457-8650.

SPRYNET Internet Access

SPRYNET is an Internet Service Provider with local dial-up access in 93% of the USA and parts of Canada. SPRYNET now offers a complete suite of SPRYNET-access software for Windows CE, based on Microsoft Internet Explorer. Features include:

- A dedicated scripting engine that automatically logs into CompuServe's worldwide network,
- The SPRYNET Control Panel, where all Internet-related information comes together for easy configuration in one location,
- SPRYNET for Windows CE local home page, linking users to special sites from SPRYNET and Microsoft for Handheld PC users.

A locate feature in the SPRYNET properties screen helps users find SPRYNET local dial-up numbers in the USA and Canada. SPRYNET is also partnering with DTS Wireless to deliver ZAP-IT for SPRYNET as a wireless service connection. For information on ZAP-IT features, see DTS Wireless description in the Wireless section below.

Price: For those who already have a SPRYNET account, there is no extra charge for SPRYNET for Windows CE.

Pricing plans for access: Unlimited: $19.95/month for unlimited Internet access; Standard: $9.95/month for 7 hours of Internet access plus $1.95 each additional hour; Economy: $4.95/month for 3 hours of Internet access plus $1.95 each additional hour.

SPRYNET
Phone: 800-777-9638 / 425-957-8998; Fax: 510-275-1190
Email: info@sprynet.com
Web: www.sprynet.com

Software Development

Corporate Mobile Applications

Steton Technology Group develops integrated corporate mobile applications for Microsoft Windows CE. Specific areas of expertise include client management, audit and inspection, and field service operations. In developing applications for these areas, Steton specializes in seamless integration with corporate infrastructure.

Price: Varies
Steton Technology, Inc.
Phone: 888-783-8661 / 801-680-5655; Fax: 801-656-5680
Email: caplin@steton.com
Web: www.steton.com

Green Mountain Software Development Services

Green Mountain Software offers a full range of custom software development services for handheld computing-- specifically for the Windows CE and Newton platforms. Experienced with vertical markets, Green Mountain has developed solutions for health care, sales automation, film and video production, housing inspection, sports timing

Publications

Magazines and Newsletters

Andrew Seybold's Outlook

In this 36-48 page monthly publication, Andrew Seybold shares his perspective and knowledge as an industry insider. Topics include hardware, software, services, mobile implementation, communications, the Internet, the Mobile Executive, and others. Free sample available.

Price: $395 or electronic subscription: $249 per year. CONTACT: Andrew Seybold's Outlook, Phone: 408-338-7701; Fax: 408-338-7806 Web: www.outlook.com

Handheld PC Magazine

That's us. *Handheld PC Magazine* will keep you current with the latest Handheld PC news and product information. We provide articles, reviews, tips, user profiles, and more. (See our order card in this issue to subscribe.)

Price: $34.95/year. CONTACT: Phone:800-373-6114 or 515-472-6330; Fax: 515-472-1879; E-mail: orders@thaddeus.com; Web: www.thaddeus.com

Power CD: The Handheld PC Magazine Supplement

This bi-monthly subscription CD contains the freeware and shareware mentioned in the corresponding *Handheld PC Magazine.* Also, PowerCD includes advertisers' Websites and the content of the current *Handheld PC Magazine* that you can read using your H/PC or desktop Web browser.

Price: $99.95/year. CONTACT: see above.

Handheld Systems Journal

Handheld Systems Journal, a bimonthly magazine about software development for handheld computers, has a special focus on Windows CE. Now in its fourth year, each issue typically includes news, product announcements, reviews, and articles for all programming levels. There is an optional source code disk subscription, plus a money-back guarantee.

Price: $70 North America, $90 elsewhere. CONTACT: Creative Digital Publishing, Inc., Attn: Steve Mann, Phone: 415-621-4252; Fax: 415-621-4922; E-Mail: hhca@cdpubs.com
Web: www.cdpubs.com

Mobilis

Mobilis is a mobile computing lifestyle e-zine, offering interviews, product reviews, reader feedback and tips. Back issues are online here as well as the current edition.
Web: www.volksware.com/mobilis/

Pen Computing

This bi-monthly magazine reports on Windows CE, Newton, Pilot, Zaurus, and others.

Price: $18/year; CONTACT: Pen Computing, Inc., P.O. Box 408, Plainview, NY 11803
Web: www.pencomputing.com

Pen-Based Computing

Pen-Based Computing: The Journal of Stylus Systems newsletter covers the vertical mobile computing and communications market. It includes in-depth previews of coming technology, interviews, reviews, and announcements.

Price: $200 in North America; CONTACT: Pen-Based Computing, Phone: 250-472-1215.
Web: www.volksware.com/pbc

Windows CE Resource Guide

Affinity's guide comes packaged with Handheld PCs. It includes descriptions of some of the hardware and software products that are compatible with Windows CE.

CONTACT: Affinity Publishing, Phone: 206-281-0089; Fax: 206-281-1799; E-mail: affinity@pennwell.com

Books

The Handheld Computer Almanac

The Handheld Computer Almanac is a guide to products and services for H/PCs, organizers, palmtops, etc. With more than 600 companies and 1100 products, it includes detailed descriptions of hardware, software, consultants, publications, system integrators, distributors, VARS, and more.

Price: $24.95; Shipping and Handling: $7.50 in North America, $12.50 elsewhere. CONTACT: Creative Digital Publishing, Inc.; Phone: 415-.621-4252 ; Fax: 415-621-4922; E-Mail: hhca@cdpubs.com
Web: www.cdpubs.com

Introduction to Microsoft Windows CE for the Handheld PC

This book by Robert O'Hara, (Microsoft Press, 1997) gives a detailed tour of all applications, and includes tips and tricks. See your local bookstore.

MobilePress Interactive Publishing Software

AdageUS announces MobilePress, an interactive book publishing utility for Windows 95 and NT that builds "electronic books" to be viewed on the Windows CE Handheld operating system. With MobilePress,users can create portable novels, technical manuals,reference materials, study guides, newsletters, help systems, etc. from industry standard HTML pages and read them using our free MobileView utility for Windows CE.
Web: www.adageus.com/wince

E-Texts

University Cybershops' Free Book Database is a site that lists free E-TEXTs available for download. See also Project Gutenberg and other sources.
Web: www.ucybershops.com/books/book-free.html

and scoring, education and communications. Green Mountain's expertise includes: system architecture and design; handheld application programming; communication protocol design and development; interfaces to desktop and host components; desktop components, and external hardware interfaces (instrumentation, communications and measurement systems).

Price: Contact Vendor
Green Mountain Software Corporation
Phone: 802-865-2728; *Fax: 802-865-2468*
Email: Info@GMSW.com
Web: www.gmsw.com

MicroBurst Custom Service

MicroBurst develops custom applications for Windows CE, other handhelds including: Palm Pilot, GEOS, Newton, smart phones, and desktop Windows '95, NT, Mac, and OS/2. Specialties include: messaging for Exchange Forms, Lotus cc:Mail and Notes, Groupwise, wireless data, smartphones, and workflow. Provides international development and porting for European, Japanese, and other Asian languages.

Price: varies
MicroBurst, Inc.
Phone: 301-330-2995; Fax: 301- 330-8609
Email: MarkF@MBurst.com
Web: www.MBurst.com

Mobile Inspection and Data Collection Systems

Bear River Associates provides software development and systems integration services for organizations using Handheld PCs and mobile computers of all kinds, desktop computers, databases and intranets. The company has developed mobile systems for tracking construction projects, corporate receiving departments and others.

Price: Varies
Bear River Associates, Inc.
Phone: 510-834-5300; Fax: 510-834-5396
Email: info@bearriver.com
Web: www.bearriver.com

Pygmy Services

Since 1984, Pygmy has provided mobile computing solutions to the corporate community. Now Handheld PCs are incorporated in its services, which include consulting, contract software development, integration, and training.

Price: Varies
Pygmy
Phone: 888-807-4472 / 305-253-1212
Fax: 305-255-1876; Email: sales@pygmy.com
Web: www.pygmy.com

EVENTS

Handheld Systems '98:

The Science, Art, and Business of Personal Systems Development

Handheld Systems '98, entering its fourth year, focuses exclusively on development-related topics for handheld computer hardware and software. The conference includes in-depth discussions of key platforms and APIs, hardware design, business issues, the Internet, wireless communications,electronic software distribution, and more. April 6-10 San Francisco.

Sponsored by Palm Computing, Psion Software and GeoWorks CONTACT: Creative Digital Publishing; Phone: 415-621-4252; Fax: 415-621-4922; E-mail: info@cdpubs.com Web: www.cdpubs.com

The Second Annual Mobile & PDA Expo

World Market Strategies Ltd./PDA Inc. announces "The Second Annual Mobile & PDA Expo" to be held February 18 to 20, 1998 at the Clarion Hotel at San Francisco International Airport. They expect more than 2,000 people to attend the Expo which is focused exclusively on mobile, portable, compact PC, wireless, PDA, H/PC, smart phone, and hand-held computing technology.

CONTACT: World Market Strategies/PDA Inc; Phone: 415-252-8008; Fax: 415- 252-8055; e-mail: drew@wmsltd.com

Web: www.pda-expo.com

Repair/Trade

Calculator World Services

Calculator World repairs and upgrades Handheld PCs. (They have 14 years experience with HP handheld products.) They also sell and trade various types of Handheld PCs, HP Palmtops and calculators, Psions, and Sharps.

Price: Varies
Calculator World, Inc.
Phone: 610-588-4444; Fax: 610-588-1727

Training

Self Management and the Handheld PC

Self Management and the Handheld PC is designed for the corporate client. The intent is to merge the functions of Handheld PCs, the client's business process, and a productivity framework developed by Priority Focus. The training is designed to facilitate a smooth transition to the use of Handheld PCs both in and out of the office.

Price: $2500 1/2 day, $3000 full day
maximum of 20 people per session
Priority Focus
Phone: 800-438-5512 / 619-697-9566
Fax: 619-697-2804; Email: lkimbell@priorityfocus.com
Web: www.priorityfocus.com

Windows CE Development Training

Eclipse International offers Windows CE training classes for ISVs, IHVs, and OEMs. Classes cover topics related to Windows CE, SDK, DDK, and DAK, as well as related development issues.

Price: varies
CONTACT: Eclipse International, Inc., Attn: Thomas Wong; Phone: 415-691-6555; Fax: 415-428-0292; Email: twong@eclipseint.com
Web: www.eclipseint.com

Software Distribution

MobileSoft

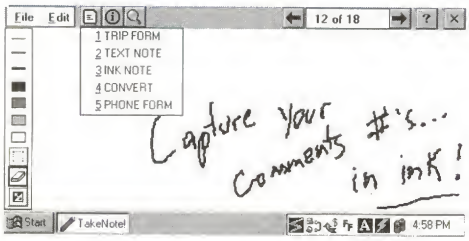
MobileSoft has established an online channel, through which customers can purchase software for Handheld PCs. A selection of titles can be instantly downloaded.

If you have a product to distribute, call MobileSoft at 408-481-1900.
Web: www.mobilesoft.com

HPC Solutions in Hand

TakeNote!

intelligent notepad with plugin stationery



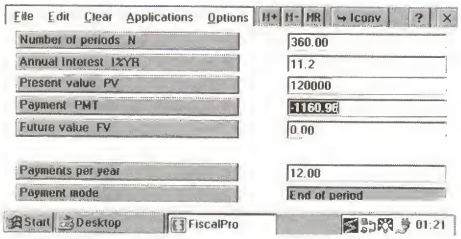
Features

- Ink notes, text
- Optional stationery
- Includes Travel form, conversions and more.
- Includes 3 bonus utilities NewContact, NewTask and LaunchBar

The next time you want to quickly capture an idea, a friend's phone number, or confirm whether 5000 lira is a small fortune then TakeNote! TakeNote! transforms your HPC into an electronic piece of paper that supports stationery such as Ink sketches, text notes, conversions and more.

Fiscal Pro

forms based financial problem solver



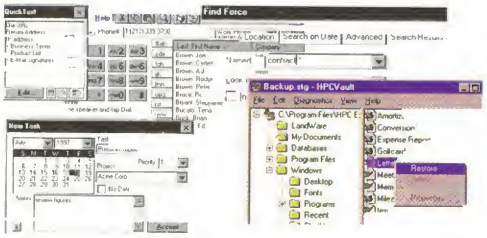
Features

- Simple form filling metaphor
- Amortizations
- TVM calculations.
- Investment analysis
- Unit/Currency conversions
- Single tap calculations

Fiscal Pro employs a "form filling" metaphor to provide you with a rich problem solving environment that is unparalleled in its ease of use, power and flexibility. Just enter the known quantities and tap to solve for the unknown value. Ten different calculation forms are provided.

Productivity Pac

powerful suite of add-on utilities



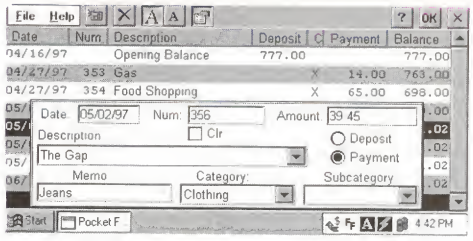
Features

- Search by filename, date or document text
- Recover a file from backups
- Fast and flexible dialling
- Rapid entry of glossary text or date/time stamp
- Quickly add a new task
- Quickly add a new contact
- One tap application launch

Powerful productivity add-ons for your Windows CE device. You'll now be able to search by filename, date or text with FindForce, recover a file from your desktop's backup image, dial the phone, enter a new task/contact with ease, reduce typing through the use of quick access glossary and launch any file from a button in the status area.

Pocket Finance

track you finances anywhere, anytime



Features

- Rapid data entry
- Supports Multiple Accounts
- Desktop companion application to upload data.
- Pop-ups for description, category and subcategory
- Font control.
- Supports QIF.

Capture your financial transactions on the road. Pocket Finance lets you easily enter check, ATM, credit card activity and then upload it into MS Money or Quicken. Supports multiple accounts, category pop-ups that remember your entries, auto check numbering and more.

AllPen Mobile Forms Database

capture information on the road

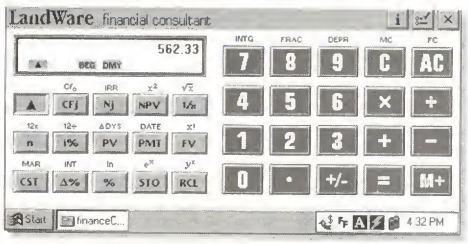
Features

- Create databases on the HPC
- Multiple field types
- Fast searching and sorting
- Export as a tab or comma delimited ASCII file.

This powerful forms based data collection solution allows you to capture information via pen and keyboard. Default responses can be entered so you save time when entering repetitive data. Field types include text, note, number, pop-up menus, radio buttons, and checkboxes.

Financial Consultant

financial problem solver



Features

- TVM Calculations
- Keystroke depreciation
- Investment analysis using NPV and IRR
- 13 percentage calculations
- Date calculations

Equips your HPC with a powerful business tool. This calculator has been designed specifically for real estate, retailing and business professionals who need to make fundamental financial decisions quickly and accurately.

LandWare®
Software for Terra Firma

Full product details and ordering at www.landware.com
Ph (201) 261-7944, fax (201) 261-7949, sales (800) 526-3977, info@landware.com

THE FUTURE IS IN YOUR HANDS

(...BUT DON'T EXPECT TO FIND IT AT COMDEX!)

NEED TO KNOW THE LATEST ABOUT MOBILE/PORTABLE/WIRELESS DATA/SMART PHONE/HAND-HELD/PDA TECHNOLOGY AND HOW TO APPLY THESE "FOURTH WAVE" COMPUTING DEVICES TO YOUR BUSINESS?

THEN COME TO THE

Mobile & PDA Expo '98

FEBRUARY 18-20, 1998 SAN FRANCISCO

LET'S FACE IT, THERE'S NOTHING LIKE COMDEX. WHATEVER YOU'RE LOOKING FOR, IT'S THERE — IF YOU CAN FIND IT. BUT IF YOU VALUE QUALITY OVER QUANTITY — AND YOUR SPECIFIC INTEREST IS MOBILE/PORTABLE/WIRELESS DATA/SMART PHONE/HAND-HELD/PDA TECHNOLOGY AND HOW IT CAN WORK IN YOUR BUSINESS — **THE MOBILE & PDA EXPO** IS A BETTER EVENT TO ATTEND.

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- A FOUR-TRACK CONFERENCE PROGRAM WITH MORE THAN 20 EDUCATIONAL SEMINARS, PANEL DISCUSSIONS, AND DEVELOPER WORKSHOPS.
- KEYNOTE ADDRESSES FROM PHILIPPE KAHN OF STARFISH SOFTWARE AND OTHER LEADING HIGH-TECH EXECUTIVES.
- AND MORE...

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For exhibitor or conference information:

Call: (415) 252-8008
E-mail: info@wmsltd.com
Visit: www.pda-expo.com

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PRODUCT REVIEWS

CONNECTIVITY

IKON MobileCHOICE and Mobility Services

By Jeff Farnsworth

In the quick moving world of professional sports, effective communication plays a major role. During the off season, where player-trades and signings are at their peak, the ability to quickly and easily reach key personnel has the potential to make or break a season.

The Portland Trail Blazers recently put IKON's MobileCHOICE communications software, their Mobility Services electronic messaging service, and Motorola's PM100D Personal Messenger wireless modem card the to the test. The results? A fast and portable way to send and receive electronic messages.

I had the chance to test out the units before sending them on to executives, and enjoyed the experience. Reception of the network was the biggest issue that I encountered. At my desk, for example, I had problems with signal strength. Albeit, I was sitting between two computers, their 21" monitors, a room fan, and a stereo system. Moving a few feet away, or near a window cleared the problem. I was also able to send and receive messages while in a moving car with no problems.

The PM100D wireless modem connects to a standard PCMCIA Type II slot. Three LED's on the modem give a quick indication of adequate network coverage, incoming messages, and low-battery status. One particularly nice feature is that since the modem itself is registered to the user, checking for new messages only requires powering the modem and looking for a blinking yellow LED; insertion of the modem into the H/PC is not necessary until you want to receive and read the message.

Installation was easy, as the MobileCHOICE software installed on the desktop PC, transferred the necessary software to the handheld PC by way of the H/PC Explorer. With the modem inserted and powered, connecting to IKON's Mobility Services was as easy as opening the Inbox application and clicking the appropriate icon.

The PM100D runs on a single Alkaline or rechargeable NiCad 9-volt battery, saving the H/PC's power supply. A small antenna extends from the modem's body, which is not much larger than the enclosed 9-volt battery.

Support service through IKON Office Solutions proved to be very useful. When we had a problem with the broken battery connector on one unit, IKON delivered a replacement the next day. Knowledgeable and friendly, IKON's technicians and representatives have a genuine sense of enthusiasm for this exciting new technology.

If we were to have a 'perfect world' wish list, it would include the ability to connect to our existing POP servers. As it is now, the provided email address works well as a private account. Simple email filtering forwards any or all messages to IKON Mobility Services and on to the device for later retrieval.

(**EDITOR'S NOTE:** The MobileCHOICE Messenger software has been recently enhanced to the ability to send longer messages, forward email to fax and other email addresses, automatically have replies to your email routed to a specified recipient, configure your fax cover page, and easily filter messages to the device based on size.)

Jeff is the "Extreme Media Specialist" for the Portland Trail Blazers, Inc. He is involved with interactive sports marketing, graphic content creation, web site design & engineering, and support for emerging multimedia & interactive technologies. He has been with the Trail Blazers since completing his Bachelor of Architecture degree from the University of Oregon in June.

IKON Mobility Services: IKON's MobileCHOICE for Windows CE, their Mobility Services, and the Motorola Personal Messenger PM100D provide the Portland Trail Blazers with an effective solution for their executives to stay in contact. IKON provides integrated wireless communications solutions for Windows CE handheld PCs. The services include a wireless service provider, wireless transmitter/ receiver, and the IKON MobileCHOICE Messenger software for Windows CE.

IKON Mobility Services: $ varies

CONTACT: IKON Office Solutions, Phone: 800-916-2075/520-577-2661; Fax: 520-529-9517; E-mail: CEInfo@Integra.net; Web site: www.ikon.net

CONNECTIVITY

Mail on the Run!

By Craig Peacock

When I first heard of Mail on the Run! I thought, "Windows CE already has email client software built in. I can send and receive Internet mail just fine from my H/PC. Who needs another one?" Then I took a look at Mail on the Run! and abruptly changed my mind.

Mail on the Run! gives the Handheld PC user direct or remote access into corporate mail systems running Lotus Notes Mail, Microsoft Exchange Server, Lotus cc:Mail, and Microsoft Mail over telephone and cellular or wireless packet data networks such as ARDIS and CDPD. Version 3.0 also provides support for sending and receiving attachments with file conversions, downloading Address Book entries from the Corporate Mailing System, and selectively downloading mail.

Using Mail on the Run to access your corporate email servers (or your home computer) requires that you set up a Windows 95 or Windows NT 4.0 machine to run the Mail on the Run! "agent" software. That machine sits there listening for requests from clients (i.e., an individual users phoning in check their email). When a request comes in the agent checks the users I.D. and password, and then lets them access their email. One Mail on the Run agent machine can handle 100 users (desktops, notebooks, or H/PCs) accessing the same, or different servers in the company.

The installation of the H/PC client software and the desktop agent software was a breeze, We didn't need to read the documentation or access the online help to install the software. But once we did read the documentation, we were impressed by some of the options.

For example, you may want to email a colleague a memo formatted as a Pocket Word document. The problem is that the recipient may not have the necessary translator software on his or her PC to be able to view the document. When you send the message via Mail on the Run, the agent machine on your network can be configured to convert the Pocket Word document to a regular format and then send it on to its destination.

The configuration of the Mail on the Run client is done on the H/PC inside Inbox. If you only want to receive certain messages on your H/PC (i.e., from your secretary, or with the subject "TOP SECRET") you can configure Mail on the Run to forward only those messages to your H/PC.

Mail on the Run! offers corporations an easy solution to getting mobile professional access to their email. It is available in a trial version, downloadable from www.riverrun.com. It offers support for MS Mail, MS Exchange, Lotus Notes Mail and Lotus CC:Mail all in the one product. River Run Software is working on adding support for Novell Products, due late December.

Mail on the Run: Provides H/PC users direct and remote access to corporate mail systems. Send, receive, reply, forward, and store messages from a remote location. Send and receive attachments, selectively download mail, and download address book entries.
Mail on the Run: $89 multi-user license available
CONTACT: River Run Software, Phone: 203-861-0090; Fax: 203-861-0096; E-mail: info@river run.com; Web: www.riverrun.com

CONNECTIVITY

Motorola Montana 33.6 PC Card Modem

By Tim Heitsch

The Montana is a V.34 33.6 Kbps data/14.4 Class I fax modem that slips into the PC Card slot that most H/PCs come with. This modem comes with a dual RJ-11 connector, software for Windows 3.1/95, and documentation. Power draw is 200mA when active, 60mA when sleeping. Motorola backs the Montana with a 5-year limited warranty. It is cellular capable, and connector cables for Motorola, Pioneer and JVC cellular phones can be purchased separately.

Plug it in and it works!

I purchased the Montana with my HP 320LX Palmtop PC from a popular direct marketing company. I also purchased the adapter cable to use with my Motorola Micro-Tac cellular phone. (NOTE: cell phones must be "data ready" to work!) When I received everything, I inserted the Montana and set up the Windows CE communications software as suggested in the several FAQ files I found on the CompuServe Palmtop forum. The H/PC immediately recognized the Montana, and the Dial-up-Networking software allowed me to log on to the Internet through both my local ISP and CompuServe (CSi). (Note: The following FAQ files are found in Library 7 of CompuServe's Palmtop forum:

- **FAQ_CIS.TXT** - notes on how to connect to CSi using H/PC & Windows CE.
- **GOCIS.TXT** and **GOCIS2.TXT** - notes on connecting & using CSi as a BBS and a PPP ISP. These last two files are also useful for general procedures to connect to any ISP/BBS.

You can also check out MODEMS.XLS, a list of Microsoft approved Windows CE Modems.)

Battery Warning: I also tried to send and receive faxes using the b-Fax software included with the HP 320LX, and that also worked flawlessly. One note: I forgot to use the AC adapter at one point, and drained a new set of batteries in 10 minutes. It pays to heed the warning that many give about always using the AC adapter while using modems.

Making cellular communications work

Having been successful to that point, I boldly set forth into the untamed world of handheld/cellular communications — it was at this point that I ran into a little trouble. I plugged the adapter cable into the cell phone and could not turn on the phone. The cellular phone company I subscribe to couldn't help me, nor could the reseller of the equipment. In fact, the reseller's technical support person declared that it wasn't possible to connect the H/PC to the cell phone. Once I got through to Motorola PC Card tech support, I quickly found out that I had the wrong cable (it was for the Montana 28.8 modem). When I received the correct cable, I tried it and it worked! Again, the FAQ files proved indispensable in working through the software setup and connection method with the cell phone. Among the most important setup notes was that 9600 was the best speed you can expect from a cellular connection (don't plan to surf the net much). Also worth noting is that if you try to use the *DATA phone number prefix in a rural area that does not have a cellular data bank, your connection attempt will fail.

Overall, I like the Montana modem; setup was painless, and if I had had a chance to read the instructions beforehand, I might have caught that the cellular cable was the wrong one. I highly recommend consulting the documentation or Motorola tech support prior to purchasing a cellular cable, to insure getting the correct one. Don't plan on using the modem on batteries, and be wary of leaving the modem in when not in use, as it will accelerate battery depletion. I also highly recommend users to check out the resources available in newsgroups or forums such as the Palmtop forum on CompuServe to gain invaluable information on setup and use of modems like the Montana.

The basic terminal window sign-on can be daunting to some, particularly trying to use services such as CompuServe. Hopefully, as newer versions of software become available with scripting, it will make utilizing this hardware easier.

Montana 33.6 PC Card Modem/Fax: Motorola's 33.6 Kbps PC Card modem that plugs in and works with the H/PC. Supports landline and cellular communications. With cellular communications, make sure cell phones are "data ready" and make sure you use the correct cable to connect the modem to the cell phone.
Montana 33.6 PC Card Modem/Fax: $200
CONTACT: Motorola, Phone: 800-427-26252, 800-566-3266 or 205-566-3266; Fax: 205-830-5657; Web site: www.mot.com/pccards

CONNECTIVITY

Pocket Carbon Copy

By Don Hergert

Just a few weeks ago, Microcom announced the release of Pocket Carbon Copy, the Windows CE version of their desktop PC remote control software. Earlier this year I

had the pleasure of reviewing Symantec's pcANYWHERE CE remote control software for the initial issue of *Handheld PC Magazine* (see Vol.1, No.0, Pg.33) and now I get to review Carbon Copy. I am amazed at how two companies can come up with products that essentially do the same thing, but implement them so differently and equally well.

Pocket Carbon Copy enables a Windows CE handheld PC to fully control a PC running Windows 95 or Windows NT. Carbon Copy can connect to the desktop PC using either the TAPI or TCP/IP communication protocols, making it possible to control your desktop via serial cable connection or over phone lines using modems.

If the desktop PC has an IRDA (infrared) port, Carbon Copy can also connect using its own IRDA port. Wireless remote control of a PC (within 3 to 5 feet) is a kick! This was the primary method I used to take Pocket Carbon Copy through its paces. (Carbon Copy and pcANYWHERE CE are different than the Remote Control utility that comes with Microsoft's PowerToys. The PowerToys utility lets the desktop PC control the handheld PC. (See review on page 69).

Remote control through Pocket Carbon Copy was a breeze. I had no problem accessing the desktop version of Word to work on this review, print it out, and save it to my desktop's Zip drive. I also brought up Visual C++ and accessed some of its CD help system. I ran the DOS box on my desktop PC and ran MSD (Microsoft Diagnostics). Finally, I played a couple of games. I had no problems running any of these programs remotely from my H/PC. Anything you can do on your PC you can do remotely from your H/PC, even other communications work if you've got other available devices for connections. The only thing that can hold you back is communications speed. With most games you'll want 14.4kbps connection as a minimum (I tested some chess games that work fine at that 9.6kbs).

Big screen/little screen

Displaying a desktop PC screen on a handheld PC requires a little squeezing. To maximize the amount of H/PC screen available to display the desktop PC's screen, I turned off my H/PC's Scroll Bars, Local Menu Bar and even the Local Task Bar. Even with this, the entire desktop screen is not displayed on the H/PC screen. To move around on the display I used a Carbon Copy feature whereby I could hold down the Ctrl key and drag the screen around with the stylus. Carbon Copy's zoom feature was helpful, letting let me see the whole screen. Carbon Copy does not let you work in zoomed mode, pcANYWHERE CE does.

Pocket Carbon Copy and pcANYWHERE both have effective remote control navigation devices, although Pocket Carbon Copy allows more display space by letting you turn off the Local Task Bar. Both let you transfers text between clipboards on either device, and provide "chat" windows that allow communication between the users of the H/PC and desktop PC linked together. One similarity I wish they didn't share is that they both lack the ability to transfer files back and forth between the desktop PC and the H/PC.

Both Microcom's Pocket Carbon Copy and Symantec's pcANYWHERE offer complete and satisfying remote control from a Windows CE device. As mentioned, Carbon Copy lets you turn off the H/PC's Local Task Bar, providing more display space. In addition, Pocket Carbon Copy supports infrared connection. Pocket Carbon Copy comes with the desktop version, which must be running on the desktop in order to connect and remotely control the desktop via H/PC.

***Don Hergert** lives with his family in Southern California and is a senior programmer analyst at Loma Linda University Medical Center. His specialty area is data communications and enterprise interface engine technologies in the health care setting. He has been a user of handheld computers since 1980.*

Pocket Carbon Copy: Pocket Carbon Copy lets you remotely control your desktop PC from your H/PC, running the desktop's applications via cable, modem, TCP/IP network connections or infrared ports.
Pocket Carbon Copy: $89 (Includes H/PC and desktop versions of Carbon Copy).
CONTACT: Microcom, 500 River Ridge Drive, Norwood, MA, 02062;Phone: 617- 551-1000; Website: www.mi crocom.com

pcANYWHERE

pcANYWHERE CE lets your H/PC control a desktop PC running Windows 95 or Windows NT 3.5 or 4.0. You can connect to the PC via cable, or via phone lines using a TCP/IP network connection. pcANYWHERE CE lets you zoom out to see a larger portion of the screen, and work in the zoomed screen.

pcANYWHERE CE: $79.95. Owners of the desktop version of pcANYWHERE can purchase the CE version for $39.95.
CONTACT: Symantec, USA; Phone: 800-441-7234 or 541-334-6054; Web site: www.symantec.com.

CONTACT MANAGER

ACT! CE

By David Shier

WindowsCE comes with a set of Personal Information Manager - (commonly referred to as PIM) applications, including Calendar, Contacts and Tasks. For many users, these programs offer enough versatility to handle all their organizational needs. However, for people who's jobs revolve around the contacts they make, a more inte-

The HP 300 Series Palmtop PC
Featuring the widest screen so you can view information like you would on your desktop PC
VGA wide screen: 640 x 240 pixels
Direct print capabilities through an infrared connection
Wireless e-mail and Internet access via Type II PC Card Modem*
Fast and easy synchronization with your desktop PC
From $499†

The problem with most handheld PCs is that the screen isn't wide enou

To get the whole picture, see our quick link: www.hpresource.com/palmtop-3

*Optional accessory available at additional price. †Projected U.S. street price. Microsoft and Windows CE are U.S. registered trademarks of Microsoft Corporation. ©1997 Hewlett-Packard Company PPG450

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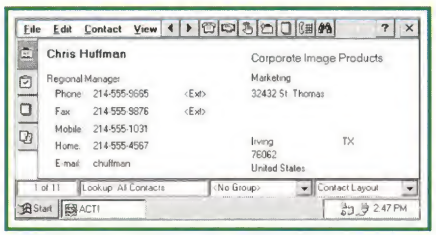
grated solution is required. These people need a "contact manager."

In a contact manager, all appointments and to-do items are associated with people in your address/phonebook. A contact manager also keeps a history of calls, meeting and tasks associated with each contact.

ACT! from Symantec is one of the most popular contact manager programs ever. If you use ACT! For Windows Version 3.0, on your desktop, then ACT! CE should look very familiar. In fact I was impressed with how many of the desktop version's features were incorporated in the H/PC version. It was remarkable, especially considering the fact that ACT! 3.0 for Windows needs over 20MB of hard disk space on your desktop.

ACT! CE has a rich assortment of data entry screens and uses a variety of user interface techniques to switch between them. For example, there are four tabs at the left of the screen to select the type information about the contact that is to appear on the screen. An icon identifies each of the tabs. A "Rolodex" card indicates the contact's address and phone information (screen below). A clipboard with a check mark on it pulls up the activities (calls, meetings and tasks) scheduled with the contact. An icon of a slip of notepaper identifies the history screen with records of all appointments, calls and tasks associated with the contact, as well as a place to add notes such as records of telephone conversations. Finally, a couple of faces are displayed on the tab, which lists the groups with which the contact is associated.

In addition to the icon tabs, there's a dropdown list to select the screen layout you wish to view. A basic contact layout includes business address and phone information. A separate phone layout shows all phone and fax numbers, including phone mobile and pager numbers, for the contact. There's a view for user definable fields. There are ten fields on this screen labeled User1 through User10 by default. However, you can rename these fields to indicate the type of information you are storing in them. ACT! CE also uses the WindowsCE tool bar for traditional menus and icon buttons to schedule activities and perform other functions.



The first tab of ACT! CE's contact information displays the name, address, phone numbers, fax number and email address of the contact. Other tabs to the left let you access additional information.

This overloaded interface can be difficult to get used to, but given the large amount of information stored in ACT!, I certainly don't claim to have a better idea of how to arrange the data. However, I do feel that ACT! CE is too dependent on the use of the pen for selections. There are many basic functions in ACT! CE that you cannot access using the keyboard. For example, to schedule an activity, it is possible to bring up the dialog box using keystrokes such as CTRL-M for a meeting. However, once there, fields such as the date or time can only be changed using the pen. For anyone who schedules his or her own appointments while away from the office, this can be slow and tedious.

On the positive side, ACT! CE has all the information you find in the desktop program. It integrates and synchronizes with the desktop version, making it an excellent portable companion, allowing many sales and support professionals to leave their laptops at home.

ACT! for Windows CE: For H/PC users needing greater contact management than the built-in PIMs afford. Especially useful for mobile professionals using ACT! on their desktop PCs.
ACT! for Windows CE: $99.95
CONTACT: Available from authorized resellers or contact Symantec at 800-441-7234 or 541-334-6054; Web site: www.symantec.com

CONTACT MANAGER

Pocket On Schedule

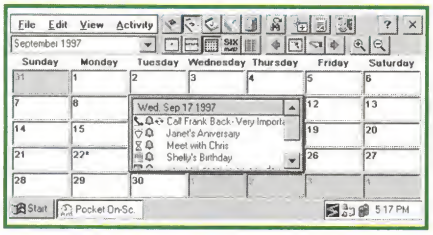
By David Shier

Like ACT!/CE, Pocket On Schedule is a contact manager that closely mirrors its desktop sibling. However, that's where the similarities seem to end. At press time, Version 2.0 was still in beta testing, so some features, such as the daily view of the calendar, were not available for review. However, what was there, was more than impressive.

One important feature is that On Schedule keeps its data in the internal database used for the Windows CE PIMs. This means that an appointment or contact you input in On Schedule also appears when you use the built-in Calendar, Task and Contact applications.

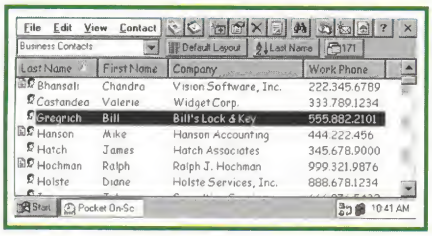
Pocket On Schedule can display appointments in a monthly as well as daily and weekly view. This is a feature that very few scheduling programs for handheld computers seem to provide.

Another way that Pocket On Schedule greatly enhances the usability of the H/PC is that the user can create their own customized list views. In each view, you can select the font sizes as well as the fields to appear on the display. This means that you can create a view with only the contact's name and phone number in a font large enough to see in poor light.



Pocket On Schedule can display a month-at-a-glance view of your schedule, with small box displaying the details of the selected days appointments and events.

When viewing the contact list, you can sort on any field, simply by pressing the field header with the pen. Pressing it a second time, will toggle between ascending and descending order. Unlike ACT!/CE which requires you to use the pen for many basic functions, even this feature has a keyboard equivalent command.



The contact list view lets you sort on any field by pressing on the field header with a pen. The above list is sorted by Last Name. Taping on the header a second time toggles between ascending and descenting order.

A heavy emphasis has been placed on linking almost any H/PC activity with contacts within Pocket On Schedule. In addition to linking appointments, tasks and phone calls, On Schedule can launch PocketWord and include a template for writing letters, or faxes. You can also associate any file on your H/PC with a contact. For example, a project cost analysis spreadsheet can be linked to one or more contacts associated with the project.

You can also select multiple contacts and create a broadcast e-mail message to all of them. Then you can send the e-mail either directly from the palmtop, or transfer it to the desktop outbox the next time you synchronize your H/PC.

Some features of On Schedule are designed to be used when your H/PC is connected to the Internet. When online, you highlight a contact and link directly to their web site, send them e-mail or even automatically locate their address on an online mapping web site. On Schedule launches the Internet Explorer with all the address information and the sends it to a web site that locates addresses on a scaleable map of the USA. As wireless technologies become more prevalent, these hooks to the Internet should make Pocket On Schedule immensely popular.

Even without the online features, On Schedule has may usability features. A telephone tone dialer is built-in that uses the H/PC's internal speaker, and the location information so that it automatically adds the city/area and country codes when necessary. A future enhancement to Pocket On Schedule will be a file cabinet that allows customized databases to be used with the On Schedule interface.

From an uninspiring beginning in Version 1.0 of Pocket On Schedule, Version 2.0 has suddenly become one of the most impressive programs available for WindowsCE.

See David Shier bio on page 6.

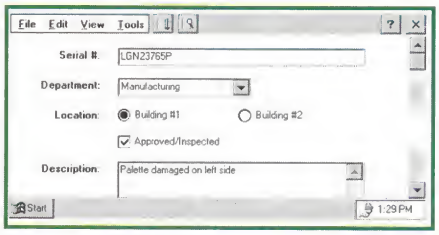
Pocket On-Schedule v2: Expected to ship in October 1997. Pocket On-Schedule v1 manages Phone Books only. Current users of Pocket On-Schedule v1 can upgrade to v2 for $49.95. Pocket On Schedule v2: if the built-in PIMs don't fill your needs, check out this powerful and flexible contact manager.
Pocket On-Schedule v2: $89.95
Pocket On-Schedule v1: $69.95
CONTACT: Odyssey Computing, Inc.; Phone: 800-965-7224 or 619-675-3660; Fax: 619-675-1130; Email: sales@odysseyinc.com; via CompuServe: 72662,2271; Web: www.odysseyinc.com.

DATABASE

AllPen Mobile Forms Database

By Randolph Sly

"Where is the database application?" This was one of the first questions on the lips of many new owners of a handheld PC. True, there are the Contact, Task, and Calendar databases in Windows CE. But a simple, customizable database application is missing. One of the advantages of an open, well-supported operating system is that even if it's missing something, it may not be missing it for long. Third-party developers fill the gaps almost as fast as they are discovered. This is certainly the case with the missing database application. AllPen Software plugged the hole almost immediately with the AllPen Mobile Forms Database (AMFD).

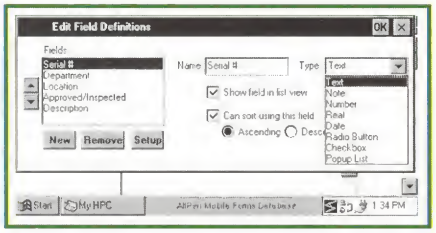


AMFD's Edit Field screen, like its Define Field screen, lets you add data fields to your database. Use this screen to select the type of field, name it, edit an existing field, or remove a field. If you remove a field, all data in that field in all records will be lost.

AMFD is a flat-file database that allows you to create, utilize, and modify a database right on your H/PC. The steps are easy to follow as AMFD leads you through the creation of the database, from naming the file to creating the names and types of fields. Fields can be defined to contain text, longer notes, numbers, and dates. Radio buttons can be defined to set up an "either-or" entry. (In the inventory database

example below, they have defined the building location of the item with radio buttons — one for "Building 1" and one for "Building 2.") You can also define pop-up lists in your database to list multiple alternatives. Number fields can also have either a default value or a decimal, percent or dollar format.

The AMFD approach of utilizing a form style for data entry makes this application exceptionally good for collecting field data that later can be transferred to a PC for further utilization. Data entry movies from field to field (i.e., key in the data and hit Enter to go to the next field). The sequence of these fields can be modified after the database has been designed by going to the Field Definitions screen from the edit menu.



The data entry screen of a sample inventory database. The Serial # field is a text field, Department: is a pull-down list, Location: uses radio buttons, Approved/Inspected is a simple check box and Description: is a Notes field that can contain larger amounts of text. AMFD only allows one Notes field per database.

AllPen Mobile Forms Database also allows you to select up to four fields for sorting purposes in the list view (not shown). Each of these fields can be set up for either ascending or descending order, giving the user a lot of flexibility in how he or she view data.

After the user defines a database, the fields are displayed in a standard layout on the screen. The length and placement of the fields cannot be modified by the user to make the screen more aesthetically pleasing.

Nor can the user change the display to pack more data fields in one screen. This will be a drawback for some used to the more sophisticated database engines on some other palmtops and PDAs.

All in all, AMFD is a decent first attempt at adding a user-configurable database to Windows CE units. It fills a void and provides H/PC users with the opportunity to track data on their units, along with importing and exporting basic data. As the Windows CE 2.0 upgrade is made available, database applications will hopefully become more powerful and plentiful.

Randy Sly *is Archbishop of the Eastern and Central Province of the International Communion of the Charismatic Episcopal Church. He leads the parish at the Cathedral Church of the King in the Kansas City area, and serves as a teacher for the National Center for Fathering. He and his wife Sandy have three children: Dena, Debbie, and David. They live in Olathe, Kansas, a suburb of Kansas City.*

AllPen Mobile Forms Database:
AMFD is a simple, user-configurable database for Windows CE users who need to be able to create their own way of collecting and organizing data on the H/PC.
AllPen Mobile Forms Database: $79.95 (U.S.)
CONTACT: LandWare, Phone: 800-526-3977; Email: info@landware.com; Web site: www.landware.com

DATABASE

HPC Notes

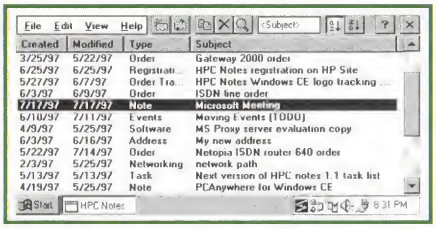
By Randolph Sly

As a long-time user of palmtops and PDAs, I looked forward to getting my first handheld PC. As I walked out of our local computer superstore with my new Hewlett Packard 320LX I was relieved. I finally had the unit I had been looking for: small, having the look and feel of Windows 95, and possessing fantastic communications capabilities. I turned it on and panicked — there was no NoteTaker.

My previous palmtop, and HP 200LX, had a nifty little three-field database called NoteTaker. I'm a bishop in the Charismatic Episcopal Church and I used NoteTaker to track work I had to do, work I assigned to others, research, and many other things. NoteTaker was one of the handiest applications on the 200LX and I missed not having it on the H/PC.

In my search for a worthy substitute, I came upon HPC Notes by Cognitive Technologies Corp. HPC Notes is a simple and straightforward note-taking program that lets you store text information and organize it according to the date and time the note was entered or modified, the note type, and subject matter. Each note is entered on a standard template that automatically formats the date and time and allows input for the type of note and subject matter of the note.

The "type" field lets you categorize your notes. You create your own note types, depending on how you want to organize the notes. For example, if you were a chef and used HPC Notes to keep track of recipes, you might use the Type field to indicate the meal the recipe is good for (breakfast, lunch, dinner) or ethnicity of the recipe (French, Spanish, Creole, etc.). Once you enter a type, you never have to enter it again. You can select it from a drop-down menu on subsequent notes.

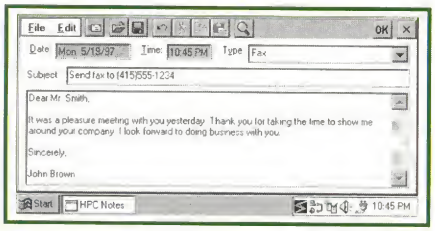


The HPC Notes main screen lets you enter the data/time the note was entered, the type of note you are entering, the Subject of the note, and the note itself.

The subject field is a simple text field that lets you enter a brief summary of the note. This becomes handy when you look a your Notes

file in list view, shown below.

You can use the pull-down menus, the menu bar icons, or shortcut keys to add a new note or edit an existing one. When you add a new note, the cursor appears in the notes box, then tabs to the subject, type, date and time. I'm used to focusing first on the note type, then subject, and finally the note itself. It would be nice to be able to change this order, but I found no option to do so.



HPC Notes list view lets you look at a list of the notes you've entered, organized by date created, date modified and note type. The Subject field lets you display a brief summary of the content of the note.

You can sort the HPC Notes list view by creation and modification dates, note type and subject. Simply click on the appropriate column header. One nice feature of HPC Notes is that it lets you email a note from the program. After entering your note, you activate the mail icon (or the Send option in the File menu) and enter an e-mail address. HPC Notes interfaces with your Contacts database to let you pick an email address instead of having to type it in. The note is placed in the mail client outbox and will be sent the next time you go on-line.

I initially tested HPC Notes version 1.1. It used a small, hard-to-read font that could not be changed. Fortunately, the latest version (1.3) has rectified that problem. Additional features such as a choice of ascending of descending sorts, options on fields visible for sorting, etc. are quite nice. Other features that version 1.3 adds include:

- Ascending and descending sort order by type, subject, creation or modification date.
- Quick search edit box in the main toolbar (press Ctrl+Q).
- Font dialog box to change the default font for the note editor and note list view.
- Option to hide or show default types in the type list.
- Option to select which fields to display in the note list view.
- Option to hide or show note's creation or modification time along with a date.
- Date range filter to display notes created or modified in the specified date range.
- Saves all settings including column width and selected font in the list view.
- New help topics.

HPC Notes lets you export and import your notes as text files or transfer data to and from other applications using the H/PC's copy and paste feature. It also provides password protection to keep your notes private.

HPC Notes is designed to use only one data file. Many users of other databases use multiple data files to keep the size of each file down and access to the data quicker. I think that Notes limits its flexibility by only allowing access to one data file. Other than that, I think that CTI has done a good job of developing and improving a very useful piece of software.

HPC Notes: HPC Notes lets you create, organize, modify and access notes quickly and easily, on your Handheld PC.
HPC Notes/Windows CE: $39.95
HPC Notes/Windows CE 15-day demo: free
CONTACT: Cognitive Technologies,
Phone: 415-925-2323; Fax: 415-461-4010; Email: ctc@ocr.com; Web site: www.ocr.com

ONLINE

SPRYNET: ISP for Handheld PCs

By Craig Peacock

Configuring your H/PC to connect to your local Internet Service Provider (ISP) is not all that easy. I published a set of instructions on how to do it in the first issue of Handheld PC Magazine (Fall 1997, page 59). The process is reviewed in the Windows CE manual. Still, H/PC users have difficulty doing it. Well, the process just became easier with an ISP named SPRYNET.

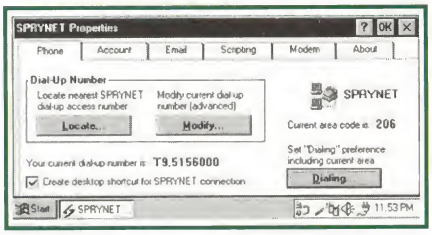
SPRYNET is the first Internet Service Provider (ISP) to deliver a complete Internet connectivity and a suite of software for Windows CE complete with a Control Panel application to configure the H/PC for SPRYNET. You use Pocket Internet Explorer to browse the web. Getting set up for SPRYNET requires that you set up your desktop PC to run SPRYNET (the installation software walks you through this process). You can then download the SPRYNET Windows CE software from their web site and install it on your H/PC.

Software installation is relatively easy. Connect your H/PC to your Windows 95 desktop PC and run SPRYHPC.EXE. Click on the desktop's Start button, select the Programs option, select SPRYNET and then "Transfer SPRYNET Control Panel Applet to HPC." It automatically detects the connectivity settings from the desktop version of SPRYNET (phone number, user id, password, etc.) and transfers it to your H/PC along with the Windows CE version of the SPRYNET software. If your H/PC does not have Microsoft Pocket

Internet Explorer installed, the SPRYNET installation process automatically installs it. At the end of installation you need to reset your H/PC. A nice help screen pops up on your desktop PC congratulating you for completing the installation and giving you some additional information. Take the time to read this help file.

Connecting to SPRYNET

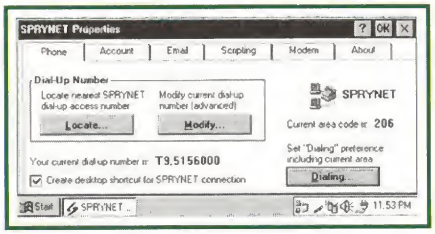
You first need to physically connect your H/PC to a phone line via an external modem, a PC card modem or a wireless modem. Philips Velo users have a built-in modem and some of the newer Windows CE 2.0 H/PCs may have this as an option. Internal and PC Card modems draw their power from the H/PC. It is recommended you connect to AC adapter while on line.



The SPRYNET Properties screen is accessed from your H/PC's Control Panel. It helps you find your nearest phone number and connect to SPRYNET.

After physically connecting, go to your H/PC's Control Panel and select the SPRYNET option. You get the SPRYNET Properties screen, shown below.

The installation process should have already transferred the appropriate settings from your desktop version of SPRYNET. If you need to modify the modem configuration, tap on the Modem tab in the SPRYNET Control Panel application (shown above). If you're on the road, in a different city, press the Locate button to find the SPRYNET access number nearest you.



Press the Locate button, enter the area code and phone number you will be dialing out on and SPYNET finds the nearest toll-free SPRYNET access phone number in the U.S. and Canada.

After you are connected to SPRYNET, you're ready to open Pocket Internet Explorer, send and receive email, or browse the Internet. Pocket Internet Explorer opens on the SPRYNET Windows CE home page, which links you to special SPRYNET and Microsoft H/PC sites.

I had a couple of questions and thought I'd ring up the SPRYNET technical support department. Not only had they heard of Windows CE, they were knowledgeable about configuring and using it. SPRYNET won the 1996 PC Magazine Editors' Choice Award for the best national Internet service provider. My experience with their software and technical support department supports that opinion. As far as I'm concerned, SPRYNET for Windows CE takes H/PC Internet support to a new, higher level — one that all other ISPs should try and achieve.

SPRYNET: Provides Internet access, email services, and Windows CE access software for U.S. and Canadian Handheld PC users.
SPRYNET for Windows CE: $varies. Unlimited Internet access: $19.95 per month; Standard Internet access: $9.95 per month; (7 hours of Internet access, $1.95 each additional hour); Economy Internet access: $4.95 per month (3 hours of Internet access, $1.95 each additional hour). Current SPRYNET subscribers can down load the Windows CE software free of charge from SPRYNET.
CONTACT: SPRYNET at www.spry net.com or call SPRYNET in the U.S. at 800-777-9638.

PEN INPUT

InScribe 1.1

By Bil. Alvernaz

Looking for an alternative to keyboard entry? InScribe, from Ilium Software, provides a unique and innovative approach to text entry on the H/PC that's easy to learn and in my experience, faster than the keyboard entry.

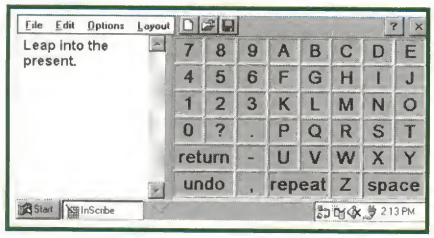
InScribe is not a handwriting recognition program. You don't have to train yourself to write in a new way or make corrections when the program doesn't recognize your handwriting. InScribe displays an alphanumeric keypad on your screen, as shown below.

The ingenious part of InScribe is that you don't tap to enter characters, you use touch and drag motions to enter words, numbers and letters. For example, let's say I wanted to enter the word "test." I'd first put the stylus on the letter "T," then drag it to "E", then to "S", and finally back to the "T." When I lift the stylus off the display, InScribe automatically adds a space after the word. The program is set up so that it doesn't record a character as long as the stylus is moving. Stop or change directions to enter a character. If you want two of the same letter (i.e., "tt" in "letters") just move the stylus to the letter, stop, move the stylus ever so slightly, and then continue on. You learn very quickly how to move the stylus without entering spurious characters.

Entering text this way is a natural movement, much like the way you move your hand when you write or draw. After just a little bit of time working with InScribe you'll be pleasantly surprised to see how fast you can "write."

In testing this program I found that I could input information with InScribe faster than I could write. One of the things that made it so

fast was that InScribe's character display could be arranged any way I wanted to. I found that setting it up like a QWERTY keyboard made entry easier and faster because that was familiar to me. You can also add in just about any character to the display, including international characters and symbols.



InScribe lets you enter characters by taping on an on-screen keypad with your stylus. You touch the first character and drag the stylus point to subsequent characters without lifting the stylus point.

The only complaint I have is that InScribe runs independent of other H/PC applications. In other words, you can't call it up when working work on a Pocket Word document or an Excel spreadsheet. I use it for note taking and jotting down ideas. I can then save notes to a file and open that up in Word if I want to continue to work on it.

Set up is a breeze. The built-in help is right there whenever you need it (although you probably won't need it much). Help offers great explanations, including tips and pointers for getting the most out of using the program.

This unique program is available for you to "try before you buy" by downloading the shareware version from Ilium's web site. The shareware version is the fully functional program. However, it will only work for 30 days from the date you install it. That should be more than enough time for you to see whether or not this alternative to keyboard entry is for you. Like all of Ilium Software's CE programs, InScribe doesn't take up much memory (49K on SH3-based HPCs, 56K on MIPS).

InScribe is definitely worth looking at, but don't judge the program after just five minutes use. You need to work with it for awhile to get the feel of it. You'll be pleasantly surprised at how quickly you come up to speed and how fast you can enter text. InScribe provides a fast, accurate, and, best of all, intuitive way to "write" on the Handheld PC. Taking notes, writing drafts, or recording ideas can now all be done without the keyboard. It's just too bad this doesn't pop up on top of other applications (like Pocket Word).

InScribe: A unique, clever alternative to using the keyboard — a fresh approach to entering data that is faster than writing and, once you get the hang of it, faster than typing on a small keyboard.
InScribe 1.1: $39.00
CONTACT: Ilium Software, 3759 Prospect, Ann Arbor MI 48105. 888-632-5388 or 313-973-9388; Web: www.iliumsoft.com; The shareware version of InScribe can be downloaded from their web site.

UTILITIES

bPRINT

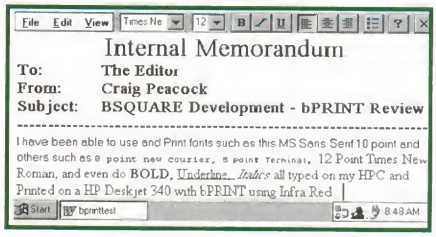
By Craig Peacock

When I got my Velo 1 H/PC I discovered that I couldn't print from it. This is true of all of the first batch of H/PCs, except the HP 320LX which lets you print from Pocket Word. Microsoft's idea is that these are "companion" machines and you'll do all your printing from your desktop. Unfortunately, I do a lot of work on the H/PC and needed to print out files directly. (Note: Windows CE 2.0 supports printing from the H/PC. Please see the review starting on page 6.)

One way I got around this limitation was to send documents to a fax machine using a program called bFAX. But I had ask people for fax numbers and they would invariably ask me why I thought the H/PC was so great if it couldn't even print

bPRINT to the rescue

Fortunately, I discovered a utility program from bsquare development called bPRINT that lets you print directly to a printer from your H/PC. You'll need to connect your H/PC to a printer using the serial cable that came with the H/PC. It's a simple matter connecting to a printer with a serial port. If your printer only has a parallel port, you'll have to get a serial-to-parallel adapter to connect to the printer (bsquare recommends the Greenwich GA-935 serial-to-parallel adapter, which retails for $59. See page 31 for Greenwich contact informaiton and descriptions of other serial-to-parallel adapters that have been tested with the H/PC, but not bPRINT).



This shows the HPC display of a document formatted in Pocket Word, prior to printed via bPRINT.

I tested bPRINT on a Philips Velo 1 and a Hewlett-Packard 320LX Palmtop PC. I printed to an HP Deskjet 340C printer fitted with an optional infrared adapter sold by HP for the Deskjet (HP part # C-3277A, price U.S. $49, through your local HP dealer). All my printing tests were done through this infrared connection.

bPRINT will let you print to any PCL-4 compatible printer (most are). You can print text files, .2bp bitmap files, and Pocket Word files. The formatting of the Pocket Word files (bolding, underlines, italics, fonts and fonts sizes, etc.) comes through. Interestingly, the Pocket Word document formatting did not come through when I printed from the 320LX without bPRINT, but it

did come through when I printed from the 320LX using bPRINT.

bPRINT lets you preview and format pages before printing. bPRINT comes bundled with bFAX, a program that lets you send and receive faxes from the H/PC. bPRINT also lets you print bFAX documents.

If you need to print from a Windows CE H/PC, you can upgrade to Windows CE 2.0 or check out bPRINT. My tests were with the Deskjet 340C. I know there are smaller printers available. If they are PCL-4 compatible, they should work with bPRINT.

bPRINT: For users of H/PCs with Windows CE 1.0 that need to print text, Pocket Word, and bitmap files directly from their Handheld PC.
bPRINT: $29.95
CONTACT: bsquare development, Phone: 888-820-4500 Fax: 206-519-5999 Email: bfax@bsquare.com; Web: www.bsquare. com

UTILITIES

Doc Safe

By Rick Gans

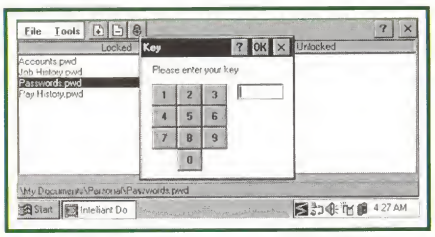
I administer the PC network at my office and have to occasionally access different workstations. In my pocket is my Velo H/PC, with a list of each workstation's password. When I travel, rather than taking all of my credit cards, frequent flyer numbers, etc., I simply refer to a Pocket Word document containing this information. It's very convenient to be able to quickly access important information, but I've always worried about security — what would happen if my H/PC fell into the wrong hands!

The Windows CE software comes with global password protection, which requires entering a password each time the H/PC is turned on. Most of the data on my H/PC is not sensitive enough to require password protection, but if I use the built-in feature, I have to enter a password to check an appointment or look up a contact. This is a pain.

Individual document password protection

Fortunately, I've discovered a new software product that lets me enable password protection for the documents I select, leaving my H/PC free to access less sensitive information without having to enter a password. That product is Doc Safe, from Intelliant. Doc Safe is an easy-to-load and easy-to-use program that allows me to choose a password and then select documents for protection.

When you install Doc Safe a numeric keypad appears on the screen and asks you to "enter your key." Use your stylus to tap in your numeric password. Make it something you'll remember, but don't make it obvious, like "1,2,3,4" or "0,0,0,0." You might want to write it down somewhere. This password lets you open the Doc Safe application, from which you can open protected files.



Tap on the Doc Safe icon and key in your numeric password. Then double-click on a locked document in the left-hand portion of the screen and it opens in the appropriate application

To add a document to the protected list you simply tap the "add file" button (a page with a plus in it) on the Doc Safe tool bar. This opens up Explorer and lets you select a file or files to be protected. To remove a document from the protected list, tap once on the document to be removed and then tap the Remove File icon (page with a minus in it) on the Doc Safe tool bar. You are asked to confirm that you wish to remove the password protection from the file.

When I need to bring up a password-protected document, I simply click on the Doc Safe icon on my Velo desktop. A screen with a numeric keypad pops up, allowing me to key in my numeric password. (I use a four-character password.)

I key in the password and hit OK. Another screen pops up, listing my password protected documents. I double tap on the desired document and it opens up in the program with which it is associated. Once open, the document is listed in Doc Safe's "unprotected" list. When you close a protected file, the name moves from the unprotected list back to the side of the display showing the protected documents.

I've used Doc Safe for about three months now and it has worked flawlessly. I picked a password that I can easily remember, but obscure enough so that it's not easy to guess. (No, it is not my oldest child's first name.)

When I received Doc Safe, I received an unexpected bonus. Included, at no extra charge, is a desktop version of the program. While I don't have to worry about leaving my desktop computer at a restaurant, I do have some sensitive documents on it, which I previously tried to hide with bogus names. Now, I use Doc Safe to protect my income tax returns and financial statements, and simply use my password to unlock them when the need arises. This too, has worked without problem or hesitation.

I've added about a half dozen programs to my H/PC, and find that Intelliant's Doc Safe is the simplest to use and by far, the most useful. Certainly worth the $30 price for peace of mind.

Rick Gans co-owns a chain of private career schools with locations all over the country. He is a regular on Compuserve's Palm B forum and recently published a review of many of the current H/PC offerings on www.

windowsce.com. Rick has served as a beta tester for Windows CE software.

Doc Safe: Intelliant Doc Safe provides password protected security for files which the HPC user wishes to keep secret.
Doc Safe Personal: $34.95, 40 bit keys (5-character passwords). Desktop and HPC versions. Secure up to 20 separate files.
Doc Safe Professional: $49.95 (US only, not for export) 128 bit keys (16 characters), Desktop and HPC versions, Intelliant Padlock, Secure an unlimited number of files.
Doc Safe Professional: $49.95 (Non-US) Same as the US version but with 40 bit keys.
CONTACT: Intelliant Software, 10117 SE Sunnyside Road, Suite F310, Clackamas, OR 97015, USA; Web site: www.intelliant.com; Email: sales@intelliant.com.

UTILITIES

PhoneTone 2.0

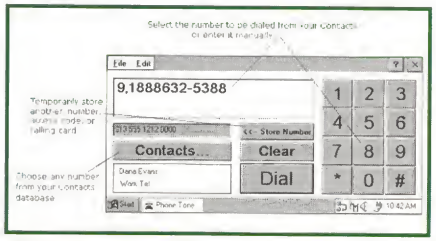
By Bil. Alvernaz

This is a handy program that dials phone numbers for you. All you do is make sure the Windows CE unit's speaker is next to the telephone mouthpiece and PhoneTone generates "touch tone" sounds. Not only that, PhoneTone is smart enough to also be able "punch in" telephone access codes, calling card numbers, and even phonemail passwords.

Setting up PhoneTone is fast and easy. Once you click on the install file, the program takes care of the rest for you. You'll want to be sure you are already connected to the Windows CE unit when you run setup, because that just makes things go more smoothly (faster, too). You're ready to go in less than five minutes and the trouble-free setup is a nice prelude to how intuitive the program is to use. Figure #1 below shows the basic screen you work from with PhoneTone. This program is not hard to use and things are quite easy to figure out.

You might not realize you need PhoneTone until you use it a few times. That's then you see how much time it saves you. And, while you can manually enter phone numbers with an easy to use, onscreen keypad, one of the best features of PhoneTone is that it can search your Contacts database for any number. No need to worry about redialing either, because PhoneTone can take care of that for you.

PhoneTone's built-in help feature walks you though anything you might need, but the program is so easy you probably won't use help much. Help lets you access a special file that lists the time zone of any North American area code. And you can download additional help files from the Ilium Software web site that provide every zip code in the United States.



PhoneTone's main screen lets you select the number to be dialed from your HPC's Contacts, or enter it manually

If PhoneTone sounds too good to be true, you can try it before you buy it. Download the shareware version from Ilium's web site (see below). The shareware version is limited in some ways, but it will give you a chance to see how it works on your H/PC. It doesn't take up much space (memory) on the Windows CE unit.

Bil. *works as a consultant and writer for a wide variety of companies. He has written for USA Today, PC Magazine, and other trade publications. Bil. Is a host on the new WindowsCE Forum on the Microsoft Network, helping people learn t he ins and outs of working with Windows CE units. He also manages the Windows 95/98 Forum on MSN.*

PhoneTone: Never dial a phone number again! If you like having phone numbers dialed for you from your desktop PC, this product offers that option wherever you are.
PhoneTone 2.0: $20.00
CONTACT: Ilium Software, 3759 Prospect, Ann Arbor MI 48105. Phone: 888-632-5388 or 313-973-9388; Website: www.iliumsoft.com; The shareware version of PhoneTone (version 1.2) can be downloaded from their web site.

UTILITIES

PowerToys

By Bil. Alvernaz

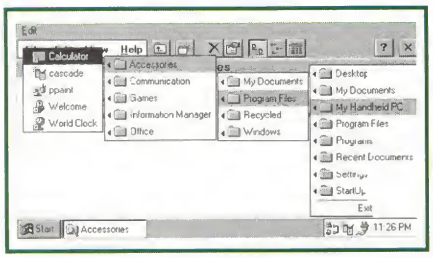
Suppose someone told you that you could increase your H/PC performance by 300%, or that you could put a button on your taskbar to mute your speaker, or that you could control your H/PC from your desktop PC's keyboard and mouse. You'd have to be nuts not to be interested, right?

Well, Microsoft has brought to Windows CE its popular and handy suite of Windows tools (and toys) called PowerToys. Conceived and designed by the developers of Windows CE, they have nothing to do with the PowerToys originally written for Windows95.

Here's what you get with PowerToys:

CASCADING MENUS — This customizable utility lets you create cascading and scrolling menus. A menu icon is placed in your Taskbar. All you do is click on the icon and the cascading menus are displayed.

From there you can instantly get anything you want by just tapping on any file or program name that resides on your H/PC. Microsoft says that this increases performance by 300%, but it seems even faster than that! This is a significant time saving factor.



Cascading Menus makes it easy and fast to see the different options available on the H/PC.

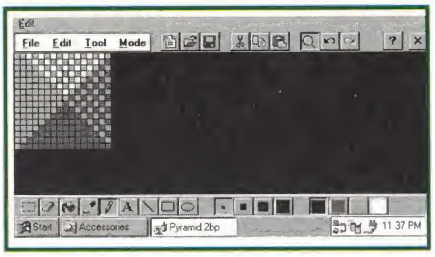
MUTE — The Mute program places a speaker icon on your Taskbar. To turn off sounds you just click on the speaker icon. An X will then be displayed over the speaker icon, with volume set to zero. To turn the speaker on again just click on the speaker icon again.

CONTROL PANEL ANNUNCIATORS — The different utilities in the Control Panel let you change the way your H/PC looks and operates. This PowerTool lets you put buttons on the Taskbar for any of the Control Panel utilities, letting you quickly open Communications, Display, Keyboard, Owner, Password, Power, Remove Programs, Stylus, System, Volume, and World Clock from the Taskbar.

Control Panel Annunciators lets you add Control Panel icons to the Task Bar to access set up options quickly. Shown above the icon for the Display option has been added to the Task Bar

REMOTE CONTROL - This utility lets you control your Windows CE Handheld PC from your desktop PC. With the H/PC connected to the desktop and Remote Control running, you can use the desktop's keyboard and mouse to enter data and control the H/PC. The desktop's monitor displays the H/PCs screen. You can also use Remote Control to capture graphical images of the H/PC's screen (those shown in this article were captured by Remote Control).

Unfortunately, Remote Control only works with H/PCs with a 480x240 screen. This means the Hewlett-Packard 300LX series of handheld PCs with 640x240 screens can't use Remote Control.



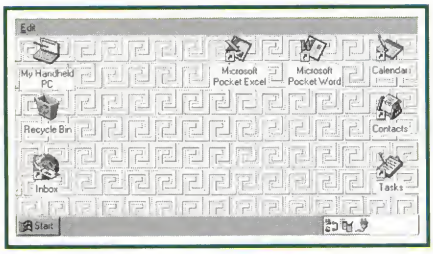
Pocket Paint lets you create pictures and edit images.

PAINT PROGRAM - This program lets you create pictures and edit images with a pocket-sized version of the Windows95 Paint program. It also lets you convert the Windows CE bitmap graphics files (with the .2bp file extension)to .bmp files, and vice versa. Some may find this smaller, non-color version of Paint a bit limiting, but it's still a nice tool if you need to do such work "on the go."

SOUND SCHEMES - These are custom sound schemes you can use in place of the default sounds that come with Windows CE. You get your choice of Analog, Metallic, and Organic. You definitely want to check out the Metallic sounds!

BITMAP TILES - Tired of the wallpaper that came with Windows CE? Well, now you have can choose from Arcade, Argyle, Cars, Castle, Chintz, Concrete, Honey, Squares, and Thatch.

PowerToys setup and installation is fast and painless. You connect your H/PC to your desktop PC and run POWTOY.EXE to install PowerToys. The install utility lets you select the "toys" you want to install and tells you know how much space on your H/PC they will occupy. Some of them take up a lot of file storage space on the H/PC, and a complete installation would take up a lot of space! Be a little conservative — you can always go back later and install something you haven't tried. Also, you can uninstall any of the toys without problems or hassles.



Bitmap Tiles lets you add different wallpaper patterns to the H/PC desktop.

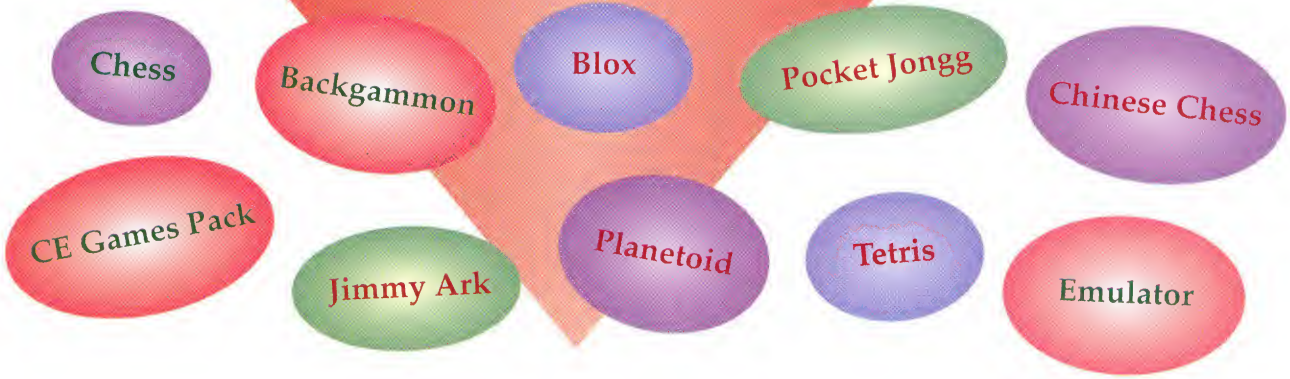
The sweetest part of all is that PowerToys is free! You can download it from Microsoft's web site:

WARNING: As with the Windows95 PowerToys, Microsoft designates PowerToys CE as "beta software." This means that Microsoft does NOT officially support the software. There are no current plans to upgrade PowerToys beyond this version. It sounds a little scary, but it's free and in reality you probably won't have any problems with the program. So go ahead and have a "look/see."

PowerToys: In addition to speeding up certain aspects of your H/PC's performance, this is a set of handy utilities that are useful and easy to use.
PowerToys: Free!
CONTACT: Website: www.micro soft.com/windowsce/ hpc/software/powerr.htm for free download.

GAMES

People play on their H/PC's



By Craig Peacock

Craig Peacock has been using Palmtops and PDA's for over 5 years and is the author of a popular Windows CE website: homepages.enterprise.net/craig/windowsce.html. *(Editor's Note: A separate review of the GamesBag collection is on p.77. For price and contact information on any game in this article, please see sidebar on page 75.)*

Windows CE has good old Solitaire built in, but more fun is available on the H/PC from independent developers. This article looks at some of the growing number of games available for Windows CE handheld PCs. I've tried be as objective as possible, but who can be objective about the games you play. With this in mind, I hope this article helps you find your own favorite game for your H/PC.

Chess

Purple Software

Chess is a feature-rich program for novice or expert. It includes 2D or 3D graphical display options and gives you a choice of board layouts and levels of difficulty. You can play against the computer, against a human opponent, or watch the computer play against itself. In addition, you can set up a board however you wish, or use the Master Games option to replay some world famous games. You can even replay games and see what went wrong.

Purple Software's Chess is a very challenging game indeed. I play chess occasionally and have played it since I was seven (but don't play at club level). My experience with chess games is that nine times out of ten you should be able to beat the beginners level of the game. With Purple Software's Chess it's more like two out of ten times. The basic chess engine used in Chess is licensed from Oxford Softworks — I think it would give Big Blue a run for its money.

The downside to having such a feature rich application is its size. The main CHESS.EXE file is 243 Kb. With help files, the whole program occupies just over 270 Kb.

Backgammon
Chinese Chess

Purple Software

Backgammon and Chinese chess are bundled together. Both are feature rich, high quality games like the Chess program. Both are also very big! (Backgammon occupies 250Kb, Chinese Chess 211Kb)

Backgammon

This program has some nice features, including multiple levels, the ability to save a game, multiple board layouts, move notation and rolling dice — tap the board and the dice roll across the screen.

If you are backgammon player (beginner upwards) and want a graphically rich game that follows the rules, includes a tutorial and

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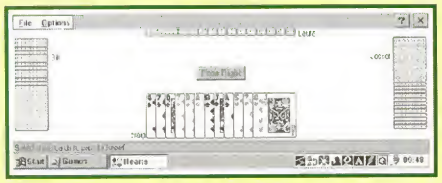
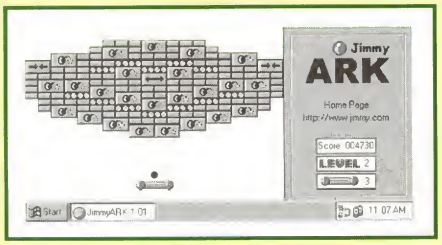
HANDHELD PC MAGAZINE

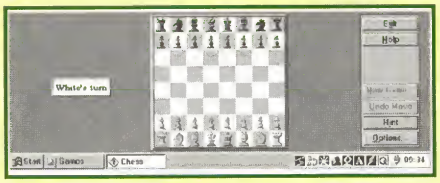
Chess (Purple Software) lets you display the chessboard in two or three dimensions (three shown above).



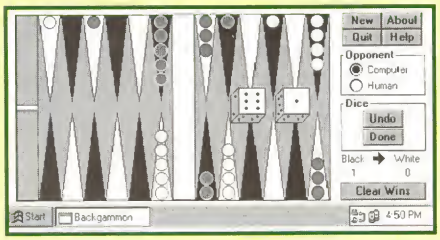
The main screen of Microsoft's Hearts shows the player's hands. You can only see the cards in your hand.



Jimmy Ark tests your skill at bouncing the ball back at the layer of bricks. Each time the ball hits a brick, the brick disappears.

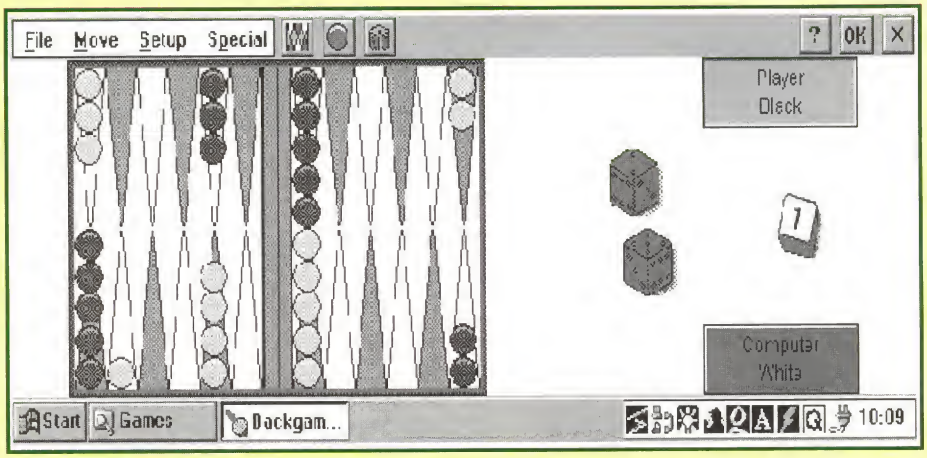


Opening screen for Microsoft's Chess game.

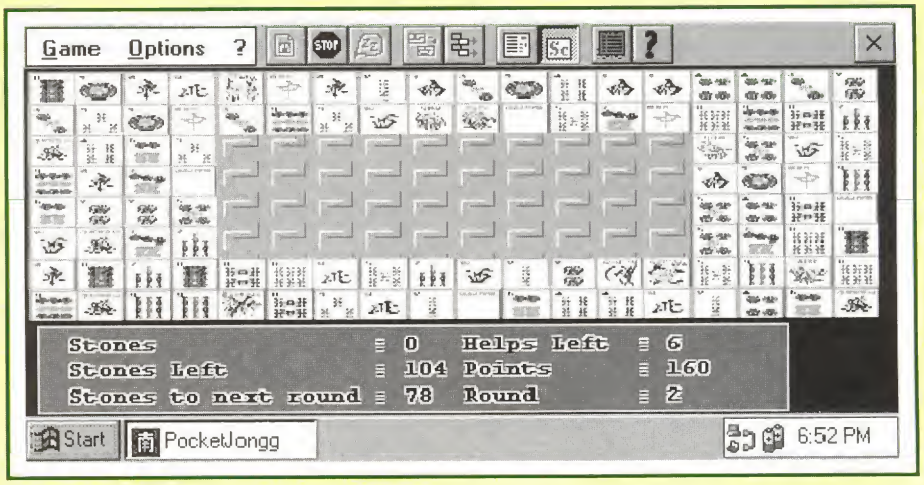


Anyware Consulting's Backgammon gives the H/PC users an excellent game occupying very little disk space.

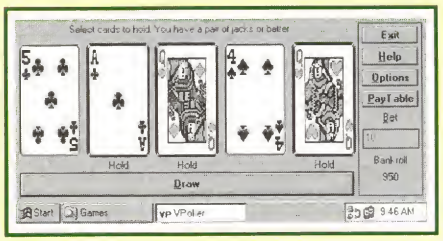
Microsoft's Space Defense pits you against missiles from above.



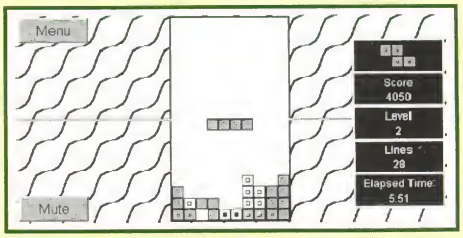
The Backgammon (Purple Software) screen. Tap on the board and Backgammon rolls the dice across the screen. A little hard to show on a still shot.



PocketJongg from C-Labs. Match tiles till they're all gone.



Cranbury Software's Video Poker brings a Las Vegas poker machine to your H/PC.



Mobilesoft's Tetris for Windows CE is a licensed version of the very popular falling blocks game Tetris.

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looks great then this is for you. Backgammon lets you look at the moves you take and save games. It won't take all the chances and the risks that a real life player would in a tough game of Backgammon.

Chinese Chess

I hadn't ever heard of Chinese Chess before and my first impression was that it looked really strange. I quickly ran through the built-in tutorial to learn how to play the game. It differs from Western chess in that each opposing side consists of a King, two Counselors, two Ministers, two Knights, two Rooks, two Cannons and five Pawns.

Chinese Chess is as full-featured as other Purple Software games. You can play against the computer or another person. You have multiple board and background options all selected by tapping icons at the top of the screen. I couldn't find any corresponding options in the pull down menus to change these settings.

One of the things I didn't like about the install program by Purple Software was the fact that it installed the .exe files into the \Windows directory without giving me a choice in the matter. On the plus side, it did create the shortcuts on the desktop and in the Games Directory, making it easy to get to them .

Microsoft CE Games Pack

Microsoft CE Entertainment Pack comes with ten games. Most are familiar and a few are new. It's you against the H/PC with some. Others let you go head-to-head with a friend via infrared port. The entire Entertainment Pack occupies about 800K, but you can selectively install the games to conserve space.

I've only reviewed some of the games, but I list them all below. If you are interested in what they look like, you can go to my web site (www.craigtech.co.uk/hpc/games) and click on each of them to see screen shots of all the games.

The Microsoft CE Entertainment Pack includes the following games:

Space Defense: Protect your star bases from incoming missiles.

Sink the Ships: Track down and sink the enemy fleet.

Blackjack: Traditional casino card game.

Chess: The well known favorite board game.

Codebreaker: Break the secret code in this brainteaser.

FreeCell: Popular form of solitaire.

Hearts: Challenging card classic for one or two players.

Minesweeper: Clear the minefield or get blown up.

Reversi: Victory is uncertain until the last piece is flipped.

Taipei: Match the tiles in this Far East favorite.

Chess

Microsoft Entertainment Pack

This version of chess still plays a very challenging game, but doesn't have some of the board options, the ability to playback games, or the ability to show moves that the Purple Software game mentioned earlier does. But this program only takes up 60 Kb. My win rate on the beginners level 1 was 6 or 7 out of 10 games. The game comes with 8 levels.

Hearts

Microsoft Entertainment Pack

This classic card game can be played by one (against the computer) or up to four via infrared link. The opening Hearts screen lets you select whether you want to play the computer or other H/PC users. Hearts main screen shows the players. Only your cards are displayed.

Space Defense

Microsoft Entertainment Pack

Remember all the quarters you lost playing Missile Command at the arcade years ago? Well, Space Defense is just as challenging, but you won't lose any quarters. You have to blow up incoming missiles or get wasted. The better you are, the more missiles they throw at you. I'm told there's an "Easter egg" hidden in Space Defense, but I haven't been able to find it yet. If anyone does, let us know.

Backgammon

Anyware Consulting

Here's another version of Backgammon — amazing for it's size (6 Kb for the .EXE and 60 Kb for the accompanying dll's and help files). The version I saw was an early beta and by the time you read this there will be several modules available each giving the user a different level of play.

This version doesn't look quite as nice as the Purple Software version, but its game play is excellent. And because it takes up such little space, it's an easy choice for H/PC users.

Video Poker Caribbean Poker

Cranbury Software

Video Poker — Ever been to Las Vegas? Video Poker looks like one of those video poker machines found in every Casino. It comes with sound effects, and displays useful information at the top of the screen (i.e., "Hand Over," "You have two pairs," "Pay out is 20," etc.). It's a simple game with excellent graphics. It has a number of useful options, including one that lets you disable the sound effects.

Video Poker has a comprehensive help feature, fully explaining Video Poker and its rules. This is another well-conceived and written program that requires only 50 Kb of disk space for all related files.

Caribbean Poker — This H/PC version of Caribbean Stud Poker is fun to play, and packed with the features of its counterpart — Video Poker. Graphically rich and small in size, Caribbean Poker is worth checking out.

PowerCD Handheld PC Magazine 1998 Buyer's Guide

Windows CE shareware and freeware mentioned in this issue and available on our PowerCD supplemental CD ROM and at our web site: www.thaddeus.com.

Program	Description (shareware/freeware status)	Page No.
Backgammon	Anyware Software's Backgammon card game(freeware)	74
Calendar Search	Search for text string in Calendar (freeware)	49,78
dbDelete	Delete unwanted database files in the object store (freeware)	50
Desk-Clock	Displays a large Digital clock on H/PC (freeware)	49
Desktop To Go	Syncronization software (30 day trial)	47
FreeMem	Gives a running total of free file/program memory (freeware)	50
FrotzCE.html	Infocom game emulator (freeware)	49,76
HPCBG.HTML	Hypertext version of Handheld PC Magazine's Buyer's Guide	n.a.
HotKey	Application Launcher (freeware)	79
InScribe	Text imput application (30 day trial)	66
JimmyNotePad	Add a note pad to the H/PC (freeware)	49,78
JimmyQuickMenu	Add "Quick Application Launcher" to the H/PC (freeware)	52,78
JimmyTimer	Small Stop Watch/Time Log utility (freeware)	52,78
KazGrep	Find text in ANSI text documents (freeware)	79
KazTelnet	Character-based telnet application for the H/PC (freeware)	49,79
KeyMap	Input special characters (freeware)	78
Mail on the Run	Access corporate mail systems from H/PC (30 day trial)	35,58
Martin Heller's Egg Timer	Timer program with alarms (freeware)	50
MGDesk	Select system icons to appear on your desktop (freeware)	52
MGQKey	Assign H/PC applications to hotkeys (freeware)	52
miniBasic	Small, primitive BASIC for Windows CE (freeware)	50
My FTP	BETA version of a character-based FTP client (freeware)	49,79
MGTime	Set H/PC clock by an Internet time service (freeware)	49
pdsContacts	Alternate contacts database for the H/PC (shareware)	50
PedroBitmaps	Assorted bitmaps for the H/PC	78
PedroSounds	Assorted WAV files for the H/PC	78
PhoneTone	Automated Dialer and Tone Generator (30 day trial)	69
Pocket UnZip	ZIP, unZIP and view ZIP files on memory card (freeware)	50
Pocket Jongg	MahJongg-type strategy game (Shareware)	49,74
Pocket Dial	Add touch tone dialing from Contacts (freeware)	50
Space Invaders	Windows CE version of popular arcade game (freeware)	49
USE2HTML	Turns Usenet Newsgroups messages into hypertext (freeware)	78
Wallpaper/PhoneSounds	Add backgrounds and sounds to the H/PC (freeware)	50
Wallpaper/WAV Files	Collection of backgrounds and WAV files (freeware)	50
WceLHA	Compression/Decompression utility (freeware)	79
WinFinger	Look up information about people on the Internet (freeware)	50
YachtCE	Windows CE version of Yahtzee (freeware)	49

ORDER NOW! 800-373-6114 (see page 73)

or download from **www.thaddeus.com**

PocketJongg

C-Labs

PocketJongg is a puzzle game like Taipei or MahJongg but follows different rules and provides different layouts. This is a feature rich program that takes up a lot of space. Occupying over 350 Kb of disk space, you can't have two many games like this on your H/PC. You can remove the sound file (pockjce.pjs) to reduce the amount of disk space used by about 108 Kb.

The object of the game is to match pairs of tiles until they are all gone. The game is both fun and challenging. It's very easy to learn and takes a long time to master.

Blox

Applian Technologies

Blox is based on the popular game Tetris. It's a small (15 Kb) fun little program. I liked this a lot, and then I saw Tetris for Windows CE.

Tetris Windows CE

MobileSoft

This is a licensed version of the original with good graphics, excellent game play, and occupies only 140 Kb of disk space (40 Kb of which is the opening sound effects!). As you change levels, the backgrounds change. You can pause the game by going back to the menu.

The piece preview option displays the next object to fall. Finally, Tetris for Windows CE displays an important statistic — how long you've been playing (it's easy to forget). The sound effects are fun but you can mute them if you need to. The levels get increasingly more difficult.

Jimmy Ark

Jimmy Software

Jimmy Ark is based on the original arcade classic Archanoid. You have a paddle, ball and a layer of bricks above you. Each time your ball hits a brick it disappears. You have to use your paddle to keep bouncing the ball back at the bricks until it breaks through. Note: strange things happen when you hit certain bricks!

Jimmy and his team of programmers started out writing some very useful programs for Windows CE, including Jimmy Notepad which allows foreign characters to be entered. Now they've decided to make some games. The version of Jimmy Ark I tested was an early

More Games!

You can never have enough games (if you like games, that is). We haven't had time to delve into this batch yet. Looks like fun, though. Let us know what you think of them.

Available on MobileSoft's web page...

AcrossWords ($29.95, by Doublegraph) — A crossword puzzle program with a comprehensive online help. You can use the keyboard or stylus to maneuver through the puzzle.

WinPoker CE ($14.95, by Zamzow Software Solutions) a suite of 12 video poker games, including: .Jacks or Better; Deuces Wild; 10s or Better; Joker Poker (Two Pair or Better); Joker Poker (Kings or Better); 4 of a Kind Bonus Poker; Aces and Eights Bonus Poker; Deuces and Jokers Wild; Double Jackpot Bonus; Double Double Jackpot Bonus; Double 4 of a Kind Bonus; Double Jokers Wild; WinPoker CE has options for sound, setting a bankroll, adding to your bankroll, betting from 1 to 5 coins and payouts that blink to alert you of a winning hand. There's an online help that you may call from within the H/PC program. The cards and buttons are large and therefore easy to view and 'Tap'. It has both screen and keyboard support.

ZSS Blackjack CE ($9.95, by Zamzow Software Solutions) the popular Casino Blackjack table game. Comes with options for 1,2,4 or 6 deck game; Basic Strategy Tutor - Ask, Warn and Show modes - that help you to 'hone' your play; $1, $5, $25 and $100 (and any combination thereof) bets up to $1000 'table' limit, the ability to set your bankroll up to $10,000, the cards and buttons are large and therefore easy to view and tap. It has both screen and keyboard support.

ZSS Slot ($9.95, by Zamzow Software Solutions) — a slot machine for the handheld PCs. It has options for custom (realistic) sound, adding to your bankroll, betting from 1 to 3 coins and payout lines that blink to alert you of a win. There's an online help that you may call from within the H/PC program. It has both screen and keyboard support.

Two additional games from other sources...

Pocket Plumber ($24) — A game of logic and speed. You try to connect various pieces of pipe to form a complete closed circuit. Available from Surerange Analysis; Phone: +44 (0) 976 501145; Web site: www.surerange.com.

ZzPet (price not available at press time) — a virtual pet for the Handheld PC. Available from Zeode Etc., E-mail: zeode@usa.net; Web site: www.impulse.net/~amilham/ie3x/index.htm.

Where To Buy

Chess: $59.99

Backgammon/Chinese Chess: $59.99
(Comes with manual in multiple languages); Purple Software, Lte.; Phone: +44 (0) 171 383 3277; Fax: +44 (0) 171 387 1188; Email address: purple_software@compuserve.com; Web site: www.purplesoft.com. Also available through MobileSoft's web site: www.mobilesoft.com.

Microsoft CE Entertainment Pack: $34.95
Microsoft Corporation; Phone: 800-358-3952; Web site: www.microsoft.com/windowsce /hpc

Backgammon: $ N/A at press time
Will be available on http://members.aol.com/anyware/wce/index.html members.aol.com/anyware/wce/index.html

Video Poker: $9.95
Caribbean Poker: $9.95
Mobilesoft: www.mobilesoft.com.

PocketJongg: $16.95
C-Labs; Web site: www.c-labs.com.

Blox: $19.95
Applian Software; Fax: 415-668-6668; Email: sales@applian.com; Web site: www.applian.com.

Tetris for Windows CE: $19.95
MobileSoft www.mobilesoft.com

Jimmy Ark: $24.95 (registered)
Sureange Analysis; Phone +44 (0) 976 501145; Email: info@sure range.com; Website: www.sure range.com.

one. It was fun to play, but little too difficult.

When you register Jimmy Ark you get a bonus game called Planetoid. It's loosely based on another arcade classic Asteroids. Jimmy Ark occupies just over 100 Kb of disk space and Planetoid just over 140 Kb.

Game Emulators

A lot of fantastic games software has been written for a wide variety of platforms. What happens when the machine (or operating system) they're written for goes out of production? The games sit on a shelf, or in a box gathering dust — unless someone has written a game emulator for the platform!

Game emulators let one operating system run games written for another. Some people say they encourage software piracy (there's already too much of that), but they're a godsend for old games.

FrotzCE

This emulator lets you play classic text-based adventure games. Many of those games are from Infocom, a company responsible for producing great text adventure games in the early to mid eighties. When I first saw FrotzCE I wondered where I was going to find any games for it. One place to look is Infocom's web site (www.lysator.liu.se/adventure/infocom/). I found a few on an old DOS shareware Power CD and some on 5¼" floppy disks. (I had to find and install a 5¼" floppy drive to load them on to my PC.) Many freeware and shareware text adventures can be found at ftp://ftp.gmd.de/if-archive/ infocom/. A commercial product, Activision's Masterpieces of Infocom, came out last year. It cost between $20 and $35 (depending on where you found it) and come with 33 of the Infocom games (not including Hitchhiker and Shogun). It may still be available in stores, or you can contact Activision on their web site: www.activision.com.This is the main FrotzCE web site.

FrotzCE can be downloaded from ftp://ftp.gmd.de/if-archive/ infocom/ or from the Frotz webpage at www.geocities.com/ SiliconValley/ Heights/3222/frotz.htm. It occupies a little over 260 Kb disk space on your H/PC. (There's a 100 Kb version of FrotzCE for those with WCEMFC.DLL in the H/PC's Windows Directory. The HP 320LX has the .DLL file in ROM.) You can also download a sampler from the sites mentioned above that explains how to play these games and lets you try a couple out. The games start at 30Kb but can be as large as 300Kb.

Ian Dean wrote FrotzCE. He has done a great job, but he's not alone. Other independent programmers have created games software that look and play like games you played in video arcades in the 80's. Some do so they can enjoy the game on the H/PC. Most do it as a mark of respect for the original arcade game. Some even do it to persuade the creator of the original game that they should port the game to the H/PC.

I saw one recently that is almost an exact replica of the classic Williams arcade game Defender. It was written with no acces to original source code and is not available for release (at the moment). When it is, I'll let you know.

More games than I can write about

New games are coming out all the time and the MobileSoft web page (www.mobilesoft.com) is a good place to vist and buy games online.

I've only scratched the surface in this review — there are other games available. Check out the review of Gamebag on page 77 of this issue. See the Sidebar on this page for a number of additional games I did not have time to review.

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[Please note: The Staff of Handheld PC Magazine *cannot provide technical support. See listings of forums and newsgroups in What's On-Line pg. 79, for advice and technical support from H/PC users.]*

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It's In The Bag!

Gamebag One

By Bil. Alvernaz

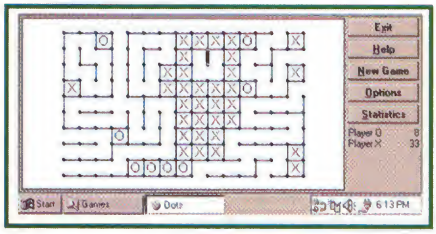
If you're being just a little too productive with your H/PC and need to take a break and have a little fun, GameBag One is for you. This collection of games is designed specifically for the handheld platform, using the stylus instead of keyboard to move objects. None of the eight games included in GameBag take much time to learn or play. They are the kind of game that you can stop in the middle of, take care of some business, and come back to without being penalized. At the same time, all of the games are addicting, capable of sucking you into a delightfully wonderful void, far from reality.

The GameBag includes the following games:

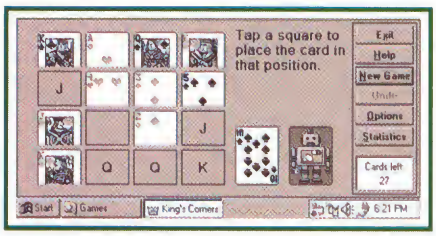
CROSS HANDS — This is a variation on poker where you play the game in two dimensions. You are "dealt" five rows and five columns of cards and have to make the best poker hands out of each row and each column. You'll think so hard in this game that you'll find yourself blinking a lot.

DOT-2-DOT — Variation on a game that most people have played this one at one time or another. There is a grid of dots that you connect with the object of making boxes. Whoever makes the most boxes wins. The trick is not to let the computer make the first box. This game will drive you nuts, but you'll love every minute of it!

HANDS DOWN — This game could be renamed "Yahtzee Meets Poker", and to say the game is challenging is an understatement. Cards are "dealt" by the computer and you must try to make each of the following poker hands: Straight Flush ($40), Straight ($20), Flush ($25), Four of a Kind ($35), Three of a Kind ($15), Full House ($30), and Two Pair ($10). You are awarded $$ for each hand you make.



Dot-2-Dot: Connect the dots to make squares. Whoever makes the most squares wins!



Kings Corners: a variety of solitaire where you put all face cards into their assigned slots around the edges of a square, with the Kings in the corners.

Shift Left: turn the pile cards face up, one at a time and move all cards to one pile.

KING'S CORNERS — This is possibly the most addictive variety of solitaire I've ever come across! The goal of this game is to put all face cards into their assigned slots around the edges of a square, with the Kings in the corners.

NAMYSTICS - Try to match a word with the shape displayed. Dots form a triangle and next to the dots are letters (shown below). For each game connected dots form a shape. Your job is to figure out the words. Things start out "easy" and get harder as the game proceeds.

SHIFT LEFT - Think ahead, but not too far! Shift left deals six cards face up and the rest of the pile face down. Turn the pile face up, one at a time. If any face-up card matches the one to it's left, or three cards to its left in suit or value it may be moved on top of that card. Move all cards to one pile and you win.

SHUFFLE - This is a computer version of an old favorite. Fifteen square tiles (numbered 1 to 15) are mixed up in a four-by-four playing grid, with one space empty. You have to move the tiles around until you have all the of the numbers in order. The game's simple, but it's hard to stop playing!STEP UP - This is a game of solitaire where you try to stack the cards on four piles, in order, using four holding piles to temporarily store cards until they are needed. This game requires a lot of planning ahead, and though it seems maddening and impossible, you can do it (if luck is on your side).

GameBag One is innovative and fun. Until now, the Microsoft CE Entertainment Pack was the only game (pack) in town. Now there's a new kid on the block and the more, the merrier — especially where games are concerned.

GameBag One has a small "footprint" with each game taking only 16K to 30K of space in memory.

GameBag One: Set of 8 games that let you interrupt your productivity with a little fun. These games are challenging, fun, easy to learn, and don't take forever to play.
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CONTACT: Ilium Software, Phone: 888-632-5388/313-973-9388; Web site: www.ilium soft.com

H/PC ONLINE

By Tom Gibson

Technical Editor, Handheld PC Magazine
Email: tom_gibson@thaddeus.com Web site: www.thaddeus.com

The Windows CE presence on the Internet has been increasing at a tremendous rate. There seem to be new Windows CE sites coming online everyday, so it is hard to keep up with them.

www.jimmy.com

In my opinion, the hottest new site belongs to "Jimmy" (a.k.a., Panutat Tejasen). Jimmy is a freelance programmer working mainly on Windows CE applications. He may be the most prolific author of Windows CE freeware and shareware at this time. You can download any of his offerings from this site, or link to a number of other sites with freely downloadable software for Handheld PCs. The site also has links to news releases and also a wish list for Windows CE versions yet to come. Jimmy graduated with a degree in Medicine and practiced as a physician in the Thailand government hospital and medical school until he fell in love with programming and now does it full-time. Jimmy resides in Chiang Mai, a beautiful small town in northern Thailand. Jimmy also develops Commercial Applications for Windows CE. Some of his current offerings include:

- **JimmyTimer 1.0:** a small "Stop Watch/Time Log" utility that lets you time racing events at up to 1/1000 second.
- **JimmyNotePad 1.04**: a note pad program that accepts special characters input, supports a "Sticky Shift" feature and a Date/Time stamp where the user can select from 14 Date and 4 Time formats.
- **JimmyQuickMenu** (Beta1): a "Quick Application Launcher" which lets you start favorite applications and "Close all" programs currently running.
- **KeyMap** (Character Map Application): a small utility which lets you input special characters in Windows CE applications (i.e., è ® § Á õ). Works like the "CharacterMap" application in Windows 95/NT.
- **Calendar Search:** lets you search for any text string in the calendar database.

www.xs4all.nl/~psion/hpc.html

Another good site to visit is "Happy Pedro's Corner," maintained by Pedro M. G. van Cam. Pedro has some interesting stuff on his page including assorted bitmaps and .wav files for your Handheld PC. Pedro also has DeskClock, a utility that displays a giant LCD-clock on your H/PC. DeskClock has a configurable menu with 12/24 hour system and hourly chime and remembers settings between sessions. Pedro has written a nifty little Usenet newsgroups converter for the H/PC. USE2HTML imports Usenet messages and converts them into an HTML file which can be very neatly viewed with Pocket Internet Explorer. Pedro is an Informations Technology Manager, working for the Dutch Ministry of Justice. He is also an Electrical Engineer, CAD-Designer, Application and Systems Analyst.

www.microsoft.com/windowsce /default.asp

Microsoft also has some big news this time with the announcement of new development tools for Windows CE version 2.0 and the announcement of Windows CE 2.0. You can read the announcements from Microsoft as well as all of the latest news from Microsoft involving Windows CE.

Additional Online Support for the H/PC

In the last issue of *Handheld PC Magazine* we mentioned a number of excellent online sources of support for H/PCs. These include:

www.thaddeus.com
Home page for *Handheld PC Magazine*. Here we share some highlights of our magazine, plus downloadable software. Our entire New Products section will be online with live links.

windowsce.com
Great links to other Windows CE sites, news and software.

www.craigtech.co.uk/hpc
Craig Peacock's WinCE home page, with lots of how-tos and links to other H/PC web sites. Craig is a regular contributor to *Handheld PC Magazine*.

members.aol.com/pdc chrisd/wce/wce.htm
Chris De Herrera's web site for Windows CE has lots of good information on PC cards and modems. Chris is a forum leader on AOL.

msnews.microsoft.com news:microsoft.public.windowsce
The Usenet newsgroup devoted to Windows CE on Microsoft's public news server.

news:comp.sys.palmtops
news:comp.sys.handhelds
Two other Usenet newsgroups that have content for Windows CE.

www.dillernet.com/wince.html
cgi.skyweyr.com/WindowsCE-TalkHome
Two Listservs mailing lists that cover Windows CE.

CompuServe
Provides two forums that support H/PCs: Keyword GO HPHAND (section 17) and GO PALMB.

America On Line
Provides one special interest group that supports H/PCs: Keyword WCE.

To take advantage of either of these, you must be a member of that electronic bulletin board system.

www.geocities.com/SiliconValley/Peaks/1672

Charles Zappone walks his talk. The web site focuses on using the H/PC as a Web authoring tool. The web page itself was created on an H/PC. Charles talks about the software he uses and gives the user plenty of tips and tricks. Charles is originally from Greensburg, Pennsylvania, about 30 miles from where I grew up, so he must be a great guy!

www.softbank.co.jp/thewindows/editors/kaz/

I am also starting to see more Japanese web pages for Windows CE, and this is great news! Our sister publication, *The HP Palmtop Paper*, supports Hewlett-Packard's HP 100/200LX Palmtop PCs. Many of the greatest pieces of freeware writing for those machines came from Japan. I'm looking forward to seeing the Japanese offerings for the Windows CE platform. The above web site is from Yamada Kazuo. He is the author of two programs called KazTelnet and KazGrep, which can be downloaded from www.softbank.co.jp/thewindows/editors/kaz/tools/tools.htm

www.tt.rim.or.jp/~hiraide/hpc/download.html

Another Japanese website belongs to Kazuhiko Hiraide. Unfortunately for readers from western countries, this web site is in Japanese. Hiraide has some very good freeware available. You can download and see screen shots of his Hotkey program and an alternative compression/decompression utility called WceLHA.

www.kt.rim.or.jp/~ym1-cc/index-e.html

The final website I mention is also from Japan, This site, from Maeno Yasushi, contains MyFTP, a character-based FTP application, and includes links to other Japanese sites, most of which are in Japanese.

These are just a few highlights of what's online now. Please see the sidebar of sites we listed in the last issue of *Handheld PC Magazine*. Microsoft has just released Windows CE 2.0 along with a new batch of Windows CE development tools. This will make it a lot easier for programmers to develop applications for H/PCs. I am looking forward to a lot more web sites coming online and a lot more freeware and shareware to tell you about.

Until next time, happy browsing — I'll see you online.

PocketPad for Windows®CE

- Digital Ink notepad for Windows®CE Handheld PC
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- Five pen types
- Optional grid lines
- Insert signatures into Microsoft® Pocket Word
- **Free** demo at Web site located at http://www.imagne.com

PocketPad is an easy to use, simple digital ink notepad for your Windows® CE-based Handheld PC. **PocketPad** utilizes the pen input from the screen for a quick way to capture your ideas, record meeting notes, and draw diagrams and sketches as if you had a pen and paper.

Imagineering, Inc.
Phone (801) 233-8325 Fx: (801) 256-9359
Sales@imagne.com
http://www.imagne.com

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